TRANSIT
WHAT'S NEW

- Revised Weights And Model Lineup
- Updated Center Of Gravity Reference Info From IVM
- Updated California GHG Emissions Data Updated SEIC/PTO Schematics
- Added E-transit Auxiliary Heat And A/C Guidance
- Right Hand Door Delete (60X) Is Now Available On E-transit
- Passenger Seat Delete Packages (21J, 21K, 211) Are Now Available With E-transit
- Fixed Shelving (66F, 66E, 66J) Are Now Available With E-transit And High Roof Configurations
- Reverse Sensing System (43R) Is Now Available On Cutaway And Chassis Cab
- New 9,950 GVWR Configurations Have Been Added To The Model Lineup
- New Fleet Fuel Economy Package (98B) Is Available New Fleet Safety Package (59C) Is Available
- Front Sensing System (59B) Has Been Added For Cutaway And Chassis Cab

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IMPORTANT NOTICES

The information described herein is believed to be correct at the time of publication, but accuracy cannot be guaranteed. Ford reserves the right to discontinue models or change specifications or designs at any time without notice and without incurring any obligation.

Representations regarding the compliance of any Ford- manufactured incomplete vehicle to any rule, regulation or standard issued pursuant to the National Traffic and Motor Vehicle Safety Act or the Canadian Motor Vehicle Safety Act are set forth only in the Incomplete Vehicle Manual (IVM) which accompanies each incomplete vehicle.

Regulations such as those issued by the Federal Highway Administration (FHA) or issued pursuant to the Occupational Safety and Health Act (OSHA), and/or state, provincial, and local laws and regulations may require installation of additional equipment for the particular use intended for the vehicle. It is the responsibility of the subsequent stage manufacturer or completed vehicle alterer and the vehicle purchaser to ascertain how the vehicle will ultimately be used, if FHA, OSHA or state provincial or local regulations apply and how the vehicle as completed will comply with those requirements. Nothing contained herein is to be construed as a representation that such equipment required for the particular use intended has been installed on the completed or incomplete vehicle.

REFERENCE INFORMATION

Ford Body Builder Advisory Service Publications

This document is an example of a program-specific Body Builders Layout Book (BBLB) published by the Ford Body Builder Advisory Service (BBAS) team. Each Ford Commercial Truck vehicle line has a similar document that aims to provide detailed information which may be of interest to a subsequent-stage manufacturer or alterer.

The Ford Transit and Transit Connect also have a Body and Equipment Mounting Manual (BEMM), which is a comprehensive resource dedicated to body and equipment mounting information.

Yet another source of program-specific information are the “Vehicle Specification” documents available on the Ford BBAS website. Information typically found in these documents are vehicle curb and accessory weights, vehicle dimensions, component descriptions, capacities, GAWRs, alternator output, powertrain output and gear ratios.

In addition to the program-specific documents, there are several Ford BBLB documents that contain general best practices or information on specific subjects that span multiple vehicle lines. These include:

- General BBLB - contains Definitions, Design Recommendations and Vehicle Storage Guidelines.
- Snowplow BBLB
- Pickup Box Removal BBLB

These publications are updated every model year and can be accessed via the web at https://fordbbas.com under “Publications”. For BBLB and BEMM documents, expand the “Body Builder Layout Book” Section to view all available documents. For Vehicle Specifications, expand the “Vehicle Specifications” section. The website search function can be used to filter for specific content or vehicle line.

Ford Body Builder Advisory Service Bulletins

Occasionally, the Ford BBAS team will create an SVE “Bulletin” to address a specific issue or distribute important information in a timely manner. These documents can be accessed via the web at https://fordbbas.com, under “Bulletins”. The website search function can be used to filter for specific content or vehicle line.

If applicable, information from each SVE bulletin will be incorporated into the appropriate BBLB document the following model year. In some cases, SVE bulletins will continue to be referenced in this document.

Ford Body Builder Advisory Service Contact

The Ford Truck Body Builder Advisory Service may be consulted if questions regarding the completion of Ford commercial vehicles are not adequately addressed in the documentation described above. For assistance call (877) 840-4338 or e-mail via the web at https://fordbbas.com under “Contact Us” and select “General Questions”.

For Ford vehicle CAD requests, please visit https://fordbbas.com , select “Contact Us” and then “CAD Request”.

For both Questions and CAD Requests, please be as specific as possible with the request details to assure the most accurate and timely response.

Ford Service Publications

Ford Service Technical Resources (including wiring diagrams, repair manuals and diagnostic tool support) are available by subscription via the Motorcraft website: www.motorcraftservice.com

The following publications are examples of digital and printed manuals which are available from Helm Incorporated; call 1-800-782-4356 or contact Helm, Inc. at their website www.helminc.com:

- Ford Truck Shop Manuals
- Ford Towing Manuals
- Ford Wiring Diagrams

Body Builders Layout Book

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MODEL LINEUP: PASSENGER VAN

PASSENGER VAN												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Trans	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
LONG 148	LR	3.5L TiVCT	10R80	9,250	3,210	3,230	2,810	6,040	4,130	5,780	1,390	11,200
		3.5L GTDI	10R80	9,250	3,144	3,279	2,826	6,105	4,130	5,780	1,325	11,200
		3.5L TiVCT	10R80	9,250	3,003	3,427	2,820	6,247	4,465	5,780	1,183	11,200
		3.5L GTDI	10R80	9,250	2,940	3,474	2,835	6,309	4,465	5,780	1,121	11,200
		3.5L TiVCT	10R80	9,400	3,360	3,230	2,810	6,040	4,130	5,780	1,090	11,200
		3.5L GTDI	10R80	9,400	3,294	3,279	2,826	6,105	4,130	5,780	1,025	11,200
		3.5L TiVCT	10R80	9,550	3,303	3,427	2,820	6,247	4,465	5,830	1,033	11,200
		3.5L GTDI	10R80	9,550	3,240	3,474	2,835	6,309	4,465	5,830	971	11,200
	MR	3.5L TiVCT	10R80	9,250	3,081	3,269	2,900	6,169	4,130	5,780	1,261	11,200
		3.5L GTDI	10R80	9,250	3,015	3,317	2,918	6,235	4,130	5,780	1,195	11,200
		3.5L TiVCT	10R80	9,250	2,874	3,465	2,910	6,376	4,465	5,780	1,054	11,200
		3.5L GTDI	10R80	9,250	2,810	3,511	2,928	6,439	4,465	5,780	991	11,200
		3.5L TiVCT	10R80	9,400	3,224	3,274	2,901	6,175	4,130	5,780	955	11,200
		3.5L GTDI	10R80	9,400	3,161	3,321	2,917	6,238	4,130	5,780	892	11,200
		3.5L TiVCT	10R80	9,550	3,167	3,471	2,911	6,382	4,465	5,830	898	11,200
		3.5L GTDI	10R80	9,550	3,107	3,516	2,927	6,442	4,465	5,830	838	11,200
	HR	3.5L TiVCT	10R80	9,250	2,935	3,274	3,041	6,315	4,130	5,780	1,115	11,200
		3.5L GTDI	10R80	9,250	2,869	3,323	3,058	6,381	4,130	5,780	1,049	11,200
		3.5L TiVCT	10R80	9,250	2,728	3,470	3,051	6,522	4,465	5,780	908	11,200
		3.5L GTDI	10R80	9,250	2,665	3,517	3,068	6,585	4,465	5,780	845	11,200
		3.5L TiVCT	10R80	9,400	3,086	3,274	3,039	6,313	4,130	5,780	817	11,200
		3.5L GTDI	10R80	9,400	3,019	3,323	3,058	6,381	4,130	5,780	749	11,200
		3.5L TiVCT	10R80	9,550	3,029	3,471	3,049	6,520	4,465	5,830	760	11,200
		3.5L GTDI	10R80	9,550	2,965	3,517	3,068	6,585	4,465	5,830	695	11,200
		3.5L TiVCT	10R80	10,360	3,478	3,110	3,772	6,882	4,130	6,725	1,059	11,200
		3.5L GTDI	10R80	10,360	3,412	3,159	3,789	6,948	4,130	6,725	993	11,200
		3.5L GTDI	10R80	10,360	3,184	3,353	3,822	7,175	4,465	6,725	766	11,200

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MODEL LINEUP: CARGO VAN (REGULAR WB)

CARGO VAN												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
REG 130	LR	3.5L TiVCT	RWD	8,670	3,668	2,940	2,061	5,001	4,130	5,070	2,560	12,000
		3.5L GTDI		8,670	3,603	2,989	2,078	5,066	4,130	5,070	2,495	12,600
		3.5L TiVCT	AWD	8,670	3,472	3,134	2,064	5,197	4,630	5,070	2,364	12,000
		3.5L GTDI		8,670	3,405	3,184	2,081	5,265	4,630	5,070	2,296	12,600
		3.5L TiVCT	RWD	9,070	4,068	2,940	2,061	5,001	4,130	5,515	2,560	12,000
		3.5L GTDI		9,070	4,003	2,989	2,078	5,066	4,130	5,515	2,495	12,600
		3.5L TiVCT	AWD	9,070	3,872	3,134	2,064	5,197	4,630	5,515	2,364	12,000
		3.5L GTDI		9,070	3,805	3,184	2,081	5,265	4,630	5,515	2,296	12,600
		3.5L TiVCT	RWD	9,500	4,498	2,940	2,061	5,001	4,130	5,750	2,560	12,000
		3.5L GTDI		9,500	4,433	2,989	2,078	5,066	4,130	5,750	2,495	12,600
		3.5L TiVCT	AWD	9,500	4,302	3,134	2,064	5,197	4,630	5,750	2,364	12,000
		3.5L GTDI		9,500	4,235	3,184	2,081	5,265	4,630	5,750	2,296	12,600
	MR	3.5L TiVCT	RWD	8,670	3,538	2,964	2,167	5,131	4,130	5,070	2,430	12,000
		3.5L GTDI		8,670	3,468	3,018	2,183	5,201	4,130	5,070	2,360	12,600
		3.5L TiVCT	AWD	8,670	3,342	3,158	2,170	5,327	4,630	5,070	2,234	12,000
		3.5L GTDI		8,670	3,269	3,213	2,187	5,400	4,630	5,070	2,161	12,600
		3.5L TiVCT	RWD	9,070	3,938	2,964	2,167	5,131	4,130	5,515	2,430	12,000
		3.5L GTDI		9,070	3,868	3,018	2,183	5,201	4,130	5,515	2,360	12,600
		3.5L TiVCT	AWD	9,070	3,742	3,158	2,170	5,327	4,630	5,515	2,234	12,000
		3.5L GTDI		9,070	3,670	3,213	2,187	5,400	4,630	5,515	2,161	12,600
		3.5L TiVCT	RWD	9,500	4,498	2,940	2,061	5,001	4,130	5,750	2,560	12,000
		3.5L TiVCT		9,500	4,368	2,964	2,167	5,131	4,130	5,750	2,430	12,000
		3.5L GTDI		9,500	4,298	3,018	2,184	5,201	4,130	5,750	2,360	12,600
		3.5L TiVCT	AWD	9,500	4,172	3,158	2,170	5,327	4,630	5,750	2,234	12,000
		3.5L GTDI		9,500	4,100	3,213	2,187	5,400	4,630	5,750	2,161	12,600

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MODEL LINEUP: CREW VAN (REGULAR WB)

CREW VANS												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
REG 130	LR	3.5L TiVCT	RWD	8,670	3,345	3,068	2,256	5,324	4,130	5,515	2,237	12,000
		3.5L GTDI			3,280	3,116	2,273	5,389	4,130	5,515	2,172	12,600
		3.5L TiVCT	AWD		3,149	3,261	2,259	5,520	4,630	5,515	2,041	12,000
		3.5L GTDI			3,082	3,312	2,276	5,588	4,630	5,515	1,973	12,600
		3.5L TiVCT	RWD	9,070	3,745	3,068	2,256	5,324	4,130	5,750	2,237	12,000
		3.5L GTDI			3,680	3,116	2,273	5,389	4,130	5,750	2,172	12,600
		3.5L TiVCT	AWD		3,549	3,261	2,259	5,520	4,630	5,750	2,041	12,000
		3.5L GTDI			3,482	3,312	2,276	5,588	4,630	5,750	1,973	12,600
		3.5L TiVCT	RWD	9,250	3,925	3,068	2,256	5,324	4,130	5,750	2,237	12,000
		3.5L GTDI			3,860	3,116	2,273	5,389	4,130	5,750	2,172	12,600
		3.5L TiVCT	AWD		3,729	3,261	2,259	5,520	4,630	5,750	2,041	12,000
		3.5L GTDI			3,662	3,312	2,276	5,588	4,630	5,750	1,973	12,600
	MR	3.5L TiVCT	RWD	8,670	3,215	3,092	2,362	5,454	4,130	5,515	2,107	12,000
		3.5L GTDI			3,145	3,146	2,379	5,524	4,130	5,515	2,037	12,600
		3.5L TiVCT	AWD		3,019	3,285	2,365	5,650	4,630	5,515	1,911	12,000
		3.5L GTDI			2,947	3,341	2,382	5,723	4,630	5,515	1,838	12,600
		3.5L TiVCT	RWD	9,070	3,616	3,092	2,362	5,454	4,130	5,750	2,107	12,000
		3.5L GTDI			3,546	3,146	2,378	5,524	4,130	5,750	2,037	12,600
		3.5L TiVCT	AWD		3,419	3,285	2,365	5,650	4,630	5,750	1,911	12,000
		3.5L GTDI			3,347	3,341	2,382	5,723	4,630	5,750	1,838	12,600
		3.5L TiVCT	RWD	9,250	3,795	3,092	2,362	5,454	4,130	5,750	2,107	12,000
		3.5L GTDI			3,725	3,145	2,379	5,524	4,130	5,750	2,037	12,600
		3.5L TiVCT	AWD		3,599	3,285	2,365	5,650	4,630	5,750	1,911	12,000
		3.5L GTDI			3,527	3,341	2,382	5,723	4,630	5,750	1,838	12,600

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CREW VAN (LWB)

CREW VANS LWB												
					MAX	Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
148	LR	3.5L TiVCT	RWD	8,670	3,243	3,183	2,244	5,426	4,130	5,070	2,135	12,000
		3.5L GTDI			3,185	3,232	2,253	5,485	4,630	5,070	2,076	12,600
		3.5L TiVCT	AWD		3,036	3,379	2,254	5,633	4,630	5,070	1,928	12,000
		3.5L GTDI			2,972	3,428	2,269	5,698	4,630	5,070	1,863	12,600
		3.5L TiVCT	RWD	9,070	3,643	3,183	2,244	5,426	4,130	5,515	2,135	12,000
		3.5L GTDI			3,584	3,231	2,255	5,486	4,630	5,515	2,075	12,600
		3.5L TiVCT	AWD		3,436	3,379	2,254	5,633	4,630	5,515	1,928	12,000
		3.5L GTDI			3,371	3,427	2,271	5,699	4,630	5,515	1,862	12,600
		3.5L TiVCT	RWD	9,500	4,073	3,183	2,244	5,426	4,130	5,750	2,135	12,000
		3.5L GTDI			4,023	3,232	2,245	5,477	4,630	5,750	2,084	12,600
		3.5L TiVCT	RWD		3,866	3,379	2,254	5,633	4,630	5,750	1,928	12,000
		3.5L GTDI			3,810	3,428	2,261	5,690	4,630	5,750	1,871	12,600
	MR	3.5L TiVCT	RWD	8,670	3,095	3,219	2,356	5,574	4,130	5,070	1,987	12,000
		3.5L GTDI			3,038	3,266	2,366	5,632	4,630	5,070	1,929	12,600
		3.5L TiVCT	AWD		2,888	3,415	2,366	5,781	4,630	5,070	1,780	12,000
		3.5L GTDI			2,825	3,462	2,382	5,845	4,630	5,070	1,716	12,600
		3.5L TiVCT	RWD	9,070	3,495	3,219	2,356	5,574	4,130	5,515	1,987	12,000
		3.5L GTDI			3,438	3,266	2,366	5,632	4,630	5,515	1,929	12,600
		3.5L TiVCT	AWD		3,288	3,415	2,366	5,781	4,630	5,515	1,780	12,000
		3.5L GTDI			3,225	3,462	2,382	5,845	4,630	5,515	1,716	12,600
		3.5L TiVCT	RWD	9,500	4,073	3,183	2,244	5,426	4,130	5,750	2,135	12,000
		3.5L TiVCT			3,925	3,219	2,356	5,574	4,130	5,750	1,987	12,000
		3.5L GTDI	RWD		3,868	3,266	2,366	5,632	4,630	5,750	1,929	12,600
		3.5L TiVCT			3,718	3,415	2,366	5,781	4,630	5,750	1,780	12,000
	HR	3.5L TiVCT	RWD	9,070	3,400	3,245	2,425	5,669	4,130	5,515	1,892	12,000
		3.5L GTDI			3,343	3,294	2,433	5,727	4,630	5,515	1,834	12,600
		3.5L TiVCT	AWD		3,193	3,441	2,435	5,876	4,630	5,515	1,685	12,000
		3.5L GTDI			3,130	3,490	2,449	5,940	4,630	5,515	1,621	12,600
		3.5L TiVCT	RWD	9,500	3,830	3,245	2,425	5,669	4,130	5,750	1,892	12,000
		3.5L GTDI			3,779	3,294	2,427	5,721	4,630	5,750	1,840	12,600
		3.5L TiVCT	AWD		3,623	3,441	2,435	5,876	4,630	5,750	1,685	12,000
		3.5L GTDI			3,566	3,490	2,443	5,934	4,630	5,750	1,627	12,600
		3.5L TiVCT	RWD	9,900	3,818	3,114	2,968	6,082	4,130	6,835	1,479	12,000
		3.5L TiVCT	AWD		3,587	3,310	3,002	6,312	4,630	6,835	1,249	12,000
		3.5L TiVCT	RWD	9,950	3,868	3,114	2,968	6,082	4,130	6,835	1,479	12,000
		3.5L GTDI			3,786	3,158	3,005	6,163	4,630	6,835	1,398	13,000
		3.5L TiVCT	AWD		3,637	3,310	3,002	6,312	4,630	6,835	1,249	12,000
		3.5L GTDI			3,574	3,354	3,022	6,376	4,630	6,835	1,185	13,000
		3.5L TiVCT	RWD	10,360	4,278	3,114	2,968	6,082	4,130	7,275	1,859	12,000
		3.5L GTDI			4,196	3,158	3,005	6,163	4,630	7,275	1,778	13,000
		3.5L GTDI	AWD		3,984	3,354	3,022	6,376	4,630	7,275	1,565	13,000

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CREW VAN (ELWB)

CREW VANS ELWB												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
EXTENDED 148	HR	3.5L TiVCT	RWD	9,900	3,818	3,114	2,968	6,082	4,130	6,835	1,479	12,000
		3.5L TiVCT	AWD		3,587	3,310	3,002	6,312	4,630	6,835	1,249	12,000
		3.5L TiVCT	RWD	9,950	3,868	3,114	2,968	6,082	4,130	6,835	1,479	12,000
		3.5L GTDI			3,786	3,158	3,005	6,163	4,630	6,835	1,398	13,000
		3.5L TiVCT	AWD		3,637	3,310	3,002	6,312	4,630	6,835	1,249	12,000
		3.5L GTDI			3,574	3,354	3,022	6,376	4,630	6,835	1,185	13,000
		3.5L TiVCT	RWD	10,360	4,278	3,114	2,968	6,082	4,130	7,275	1,859	12,000
		3.5L GTDI			4,196	3,158	3,005	6,163	4,630	7,275	1,778	13,000
		3.5L GTDI	AWD		3,984	3,354	3,022	6,376	4,630	7,275	1,565	13,000

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CARGO VAN (LWB)

CARGO VANS LWB												
					MAX	Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
LONG 148	LR	3.5L TiVCT	RWD	8,670	3,566	3,032	2,072	5,103	4,130	5,070	2,458	12,000
		3.5L GTDI			3,499	3,082	2,088	5,171	4,130	5,070	2,390	12,600
		3.5L TiVCT	AWD		3,359	3,228	2,082	5,310	4,630	5,070	2,251	12,000
		3.5L GTDI			3,295	3,277	2,098	5,375	4,630	5,070	2,186	12,600
		3.5L TiVCT	RWD	9,070	3,966	3,032	2,072	5,103	4,130	5,515	2,458	12,000
		3.5L GTDI			3,898	3,081	2,090	5,172	4,130	5,515	2,389	12,600
		3.5L TiVCT	AWD		3,759	3,228	2,082	5,310	4,630	5,515	2,251	12,000
		3.5L GTDI			3,694	3,276	2,100	5,376	4,630	5,515	2,185	12,600
		3.5L TiVCT	RWD	9,500	4,396	3,032	2,072	5,103	4,130	5,750	2,458	12,000
		3.5L GTDI			4,346	3,081	2,073	5,154	4,630	5,750	2,407	12,600
		3.5L TiVCT	AWD		4,189	3,228	2,082	5,310	4,630	5,750	2,251	12,000
		3.5L GTDI			4,133	3,277	2,090	5,367	4,630	5,750	2,194	12,600
		3.5L GTDI	AWD	9,900	4,533	3,277	2,090	5,367	4,630	6,300	2,194	12,600
		3.5L GTDI	RWD		4,746	3,081	2,073	5,154	4,630	6,300	2,407	12,600
		3.5L TiVCT	AWD		4,589	3,228	2,082	5,310	4,630	6,300	2,251	12,000
		3.5L TiVCT	RWD		4,796	3,032	2,072	5,103	4,630	6,300	2,458	12,000
		3.5L GTDI	AWD	9,950	4,583	3,277	2,090	5,367	4,630	6,300	2,194	12,600
		3.5L GTDI	RWD		4,796	3,081	2,073	5,154	4,630	6,300	2,407	12,600
		3.5L TiVCT	AWD		4,639	3,228	2,082	5,310	4,630	6,300	2,251	12,000
		3.5L TiVCT	RWD		4,846	3,032	2,072	5,103	4,630	6,300	2,458	12,000
	HR	3.5L TiVCT	RWD	8,670	3,418	3,068	2,184	5,251	4,130	5,070	2,310	12,000
		3.5L GTDI			3,352	3,116	2,201	5,318	4,130	5,070	2,243	12,600
		3.5L TiVCT	AWD		3,211	3,264	2,194	5,458	4,630	5,070	2,103	12,000
		3.5L GTDI			3,148	3,311	2,211	5,522	4,630	5,070	2,039	12,600
		3.5L TiVCT	RWD	9,070	3,818	3,068	2,184	5,251	4,130	5,515	2,310	12,000
		3.5L GTDI			3,752	3,116	2,201	5,318	4,130	5,515	2,243	12,600
		3.5L TiVCT	AWD		3,611	3,264	2,194	5,458	4,630	5,515	2,103	12,000
		3.5L GTDI			3,548	3,311	2,211	5,522	4,630	5,515	2,039	12,600
		3.5L TiVCT	RWD	9,500	4,248	3,068	2,184	5,251	4,130	5,750	2,310	12,000
		3.5L GTDI			4,191	3,115	2,194	5,309	4,630	5,750	2,252	12,600
		3.5L TiVCT	AWD		4,041	3,264	2,194	5,458	4,630	5,750	2,103	12,000
		3.5L GTDI			3,978	3,311	2,211	5,522	4,630	5,750	2,039	12,600
		3.5L GTDI	AWD	9,900	4,378	3,311	2,211	5,522	4,630	6,300	2,039	12,600
		3.5L GTDI	RWD		4,591	3,115	2,194	5,309	4,630	6,300	2,252	12,600
		3.5L TiVCT	AWD		4,441	3,264	2,194	5,458	4,630	6,300	2,103	12,000
		3.5L TiVCT	RWD		4,648	3,068	2,184	5,251	4,630	6,300	2,310	12,000
		3.5L GTDI	AWD	9,950	4,428	3,311	2,211	5,522	4,630	6,300	2,039	12,600
		3.5L GTDI	RWD		4,641	3,115	2,194	5,309	4,630	6,300	2,252	12,600
		3.5L TiVCT	AWD		4,491	3,264	2,194	5,458	4,630	6,300	2,103	12,000
		3.5L TiVCT	RWD		4,698	3,068	2,184	5,251	4,630	6,300	2,310	12,000

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CARGO VAN (ELWB)

CARGO VANS ELWB													
					MAX	Base Curb Weight			GAWR				
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
EXTENDED 148	HR	3.5L TiVCT	RWD	9,070	3,520	2,955	2,594	5,549	4,130	5,660	2,012	12,000
		3.5L TiVCT			3,723	3,094	2,253	5,346	4,130	5,515	2,215	12,000
		3.5L GTDI			3,455	3,000	2,614	5,615	4,130	5,660	1,946	12,600
		3.5L GTDI			3,657	3,144	2,268	5,413	4,130	5,515	2,148	12,600
		3.5L TiVCT	AWD		3,313	3,152	2,604	5,756	4,630	5,660	1,805	12,000
		3.5L TiVCT			3,516	3,290	2,263	5,553	4,630	5,515	2,008	12,000
		3.5L GTDI			3,251	3,195	2,624	5,819	4,630	5,660	1,742	12,600
		3.5L GTDI			3,453	3,339	2,278	5,617	4,630	5,515	1,944	12,600
		3.5L TiVCT	RWD	9,500	4,153	3,094	2,253	5,346	4,130	5,750	2,215	12,000
		3.5L TiVCT			3,950	2,955	2,594	5,549	4,130	6,000	2,012	12,000
		3.5L GTDI			4,102	3,143	2,255	5,398	4,630	5,750	2,163	12,600
		3.5L GTDI			3,885	3,000	2,614	5,615	4,130	6,000	1,946	12,600
		3.5L TiVCT	AWD		3,946	3,290	2,263	5,553	4,630	5,750	2,008	12,000
		3.5L TiVCT			3,743	3,152	2,604	5,756	4,630	6,000	1,805	12,000
		3.5L GTDI			3,889	3,339	2,272	5,611	4,630	5,750	1,950	12,600
		3.5L GTDI			3,681	3,195	2,624	5,819	4,630	6,000	1,742	12,600
		3.5L TiVCT	RWD	9,900	4,141	2,962	2,796	5,759	4,130	6,835	1,802	12,000
		3.5L TiVCT	AWD		3,910	3,159	2,830	5,989	4,630	6,835	1,572	12,000
		3.5L GTDI	AWD		4,081	3,195	2,624	5,819	4,630	6,300	1,742	13,000
		3.5L GTDI	RWD		4,285	3,000	2,614	5,615	4,630	6,300	1,946	13,000
		3.5L GTDI	AWD		4,289	3,339	2,272	5,611	4,630	6,300	1,950	12,600
		3.5L GTDI	RWD		4,502	3,143	2,255	5,398	4,630	6,300	2,163	12,600
		3.5L TiVCT	AWD		4,346	3,290	2,263	5,553	4,630	6,300	2,008	12,000
		3.5L TiVCT	RWD		4,553	3,094	2,253	5,346	4,630	6,300	2,215	12,000
		3.5L TiVCT	AWD		4,079	3,156	2,665	5,821	4,630	6,300	1,740	12,000
		3.5L TiVCT	RWD		4,309	2,959	2,631	5,590	4,630	6,300	1,971	12,000
		3.5L TiVCT	RWD	9,950	4,191	2,962	2,796	5,759	4,130	6,835	1,802	12,000
		3.5L GTDI	RWD		4,124	3,008	2,817	5,826	4,130	6,835	1,735	13,000
		3.5L TiVCT	AWD		3,960	3,159	2,830	5,989	4,630	6,835	1,572	12,000
		3.5L GTDI	AWD		3,897	3,203	2,850	6,053	4,630	6,835	1,508	13,000
		3.5L GTDI	AWD		4,339	3,339	2,272	5,611	4,630	6,300	1,950	12,600
		3.5L GTDI	RWD		4,552	3,143	2,255	5,398	4,630	6,300	2,163	12,600
		3.5L TiVCT	AWD		4,396	3,290	2,263	5,553	4,630	6,300	2,008	12,000
		3.5L TiVCT	RWD		4,603	3,094	2,253	5,346	4,630	6,300	2,215	12,000
		3.5L GTDI	AWD		4,005	3,228	2,716	5,944	4,630	6,300	1,617	13,000
		3.5L GTDI	RWD		4,233	3,033	2,683	5,717	4,630	6,300	1,844	13,000
		3.5L TiVCT	AWD		4,129	3,156	2,665	5,821	4,630	6,300	1,740	12,000
		3.5L TiVCT	RWD		4,359	2,959	2,631	5,590	4,630	6,300	1,971	12,000
		3.5L TiVCT	RWD	10,360	4,601	2,962	2,796	5,759	4,130	7,275	2,182	12,000
		3.5L GTDI	RWD		4,534	3,008	2,817	5,826	4,130	7,275	2,115	13,000
		3.5L GTDI	AWD		4,307	3,203	2,850	6,053	4,630	7,275	1,888	13,000
		3.5L GTDI	RWD	11,000	5,114	3,037	2,849	5,885	4,630	7,700	2,056	13,000
		3.5L GTDI	AWD		4,887	3,231	2,881	6,113	4,630	7,700	1,828	13,000

TRANSIT

MODEL LINEUP: CARGO VAN (ELWB)

CARGO VANS ELWB												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Trans	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
129	LR	BEV-C0	AUTO	9,500	3,880	2,810	2,809	5,619	4,130	6,000	1,942	0
	MR	BEV-C0	AUTO	9,500	3,750	2,834	2,915	5,749	4,130	6,000	1,812	0
148	LR	BEV-C0	AUTO	9,500	3,776	2,962	2,761	5,723	4,130	6,000	1,838	0
	MR	BEV-C0	AUTO	9,500	3,628	2,998	2,873	5,871	4,130	6,000	1,690	0
	HR	BEV-C0	AUTO	9,500	3,533	3,024	2,942	5,966	4,130	6,000	1,595	0
		BEV-C0	AUTO	9,500	3,330	2,886	3,283	6,169	4,130	6,000	1,392	0

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CHASSIS CAB

CHASSIS CAB												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
138		3.5L TiVCT	RWD	9,070	4,810	2,998	1,261	4,259	4,130	5,515	3,271	12,000
		3.5L GTDI			4,736	3,052	1,282	4,334	4,130	5,515	3,196	12,600
		3.5L TiVCT	AWD		4,603	3,193	1,273	4,467	4,630	5,515	3,063	12,000
		3.5L GTDI			4,529	3,247	1,294	4,541	4,630	5,515	2,989	12,600
		3.5L TiVCT	RWD	9,500	5,240	2,998	1,261	4,259	4,130	5,750	3,271	13,000
		3.5L GTDI			5,166	3,052	1,282	4,334	4,130	5,750	4,246	13,000
		3.5L TiVCT	AWD		5,033	3,193	1,273	4,467	4,630	5,750	3,063	12,000
		3.5L GTDI			4,959	3,247	1,294	4,541	4,630	5,750	4,039	13,000
		3.5L GTDI	RWD	9,900	5,387	3,061	1,452	4,513	4,130	6,835	3,591	12,000
		3.5L GTDI	AWD		5,162	3,256	1,481	4,737	4,630	6,835	3,367	13,000
		3.5L TiVCT	RWD	9,950	5,511	3,007	1,431	4,438	4,130	6,835	3,092	13,000
		3.5L GTDI			5,437	3,061	1,452	4,513	4,130	6,835	3,591	13,000
		3.5L TiVCT	AWD		5,286	3,202	1,461	4,663	4,630	6,835	2,867	12,000
		3.5L GTDI			5,212	3,256	1,481	4,737	4,630	6,835	3,367	12,600
		3.5L GTDI	RWD	10,360	5,884	3,035	1,440	4,475	4,130	7,275	4,645	12,000
		3.5L GTDI	AWD		5,660	3,230	1,470	4,700	4,630	7,275	4,420	12,600
		3.5L GTDI	RWD	11,000	6,452	3,052	1,496	4,548	4,630	7,275	4,932	15,000
		3.5L GTDI	AWD		6,238	3,248	1,513	4,761	4,630	7,275	4,719	15,000
156		3.5L TiVCT	RWD	9,070	4,770	3,040	1,259	4,299	4,130	5,515	3,231	12,000
		3.5L GTDI			4,696	3,094	1,280	4,374	4,130	5,515	3,156	12,600
		3.5L TiVCT	AWD		4,568	3,232	1,270	4,502	4,630	5,515	3,028	12,000
		3.5L GTDI			4,494	3,285	1,291	4,576	4,630	5,515	2,954	12,600
		3.5L TiVCT	RWD	9,500	5,199	3,041	1,259	4,300	4,130	5,750	3,230	13,000
		3.5L GTDI			5,125	3,095	1,280	4,375	4,130	5,750	4,205	13,000
		3.5L TiVCT	AWD		4,997	3,233	1,270	4,503	4,630	5,750	3,027	12,000
		3.5L GTDI			4,923	3,286	1,291	4,577	4,630	5,750	4,003	13,000
		3.5L GTDI	RWD	9,900	5,360	3,095	1,445	4,540	4,130	6,835	3,564	12,000
		3.5L GTDI	AWD		5,140	3,286	1,473	4,759	4,630	6,835	3,345	13,000
		3.5L TiVCT			5,397	3,233	1,270	4,503	4,630	6,300	3,027	13,000
		3.5L TiVCT	RWD		5,599	3,041	1,259	4,300	4,630	6,300	3,230	13,000
		3.5L GTDI	AWD		5,309	3,283	1,308	4,591	4,630	6,300	3,513	12,000
		3.5L GTDI	RWD		5,529	3,091	1,280	4,371	4,630	6,300	3,733	12,600
		3.5L TiVCT		9,950	5,484	3,041	1,424	4,465	4,130	6,835	3,065	12,000
		3.5L GTDI			5,410	3,095	1,445	4,540	4,130	6,835	3,564	12,600
		3.5L TiVCT	AWD		5,264	3,233	1,453	4,685	4,630	6,835	2,845	15,000
		3.5L GTDI			5,190	3,286	1,473	4,759	4,630	6,835	3,345	15,000
		3.5L GTDI			5,359	3,283	1,308	4,591	4,630	6,300	3,513	12,000
		3.5L GTDI	RWD		5,579	3,091	1,280	4,371	4,630	6,300	3,733	12,000
		3.5L TiVCT			5,653	3,038	1,259	4,297	4,630	6,300	3,233	13,000
		3.5L TiVCT	AWD		5,433	3,229	1,287	4,517	4,630	6,300	3,013	13,000
		3.5L GTDI	RWD	10,360	5,789	3,128	1,442	4,571	4,130	7,275	4,549	13,000
		3.5L GTDI	AWD		5,569	3,320	1,470	4,790	4,630	7,275	4,330	13,000
		3.5L GTDI	RWD	11,000	6,356	3,145	1,498	4,643	4,630	7,275	4,837	12,000
		3.5L GTDI	AWD		6,148	3,338	1,513	4,852	4,630	7,275	4,628	12,000

TRANSIT

MODEL LINEUP: CHASSIS CAB

CHASSIS CAB												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
178		3.5L TiVCT	RWD	9,500	5,094	3,123	1,283	4,406	4,130	5,750	3,124	13,000
		3.5L GTDI			5,019	3,176	1,304	4,480	4,130	5,750	4,100	13,000
		3.5L TiVCT	AWD		4,870	3,317	1,313	4,630	4,630	5,750	2,900	12,000
		3.5L GTDI			4,795	3,371	1,333	4,704	4,630	5,750	3,876	13,000
		3.5L GTDI	RWD	9,900	5,251	3,180	1,469	4,649	4,130	6,835	3,455	12,000
		3.5L GTDI	AWD		5,027	3,374	1,499	4,873	4,630	6,835	3,231	13,000
		3.5L GTDI			5,195	3,371	1,333	4,704	4,630	6,300	3,400	13,000
		3.5L GTDI	RWD		5,419	3,176	1,304	4,480	4,630	6,300	3,624	13,000
		3.5L TiVCT			5,494	3,123	1,283	4,406	4,630	6,300	3,124	15,000
		3.5L TiVCT	AWD		5,270	3,317	1,313	4,630	4,630	6,300	2,900	15,000
		3.5L TiVCT	RWD	9,950	5,375	3,126	1,448	4,574	4,130	6,835	2,956	12,000
		3.5L GTDI			5,301	3,180	1,469	4,649	4,130	6,835	3,455	13,000
		3.5L TiVCT	AWD		5,151	3,320	1,478	4,798	4,630	6,835	2,732	12,000
		3.5L GTDI			5,077	3,374	1,499	4,873	4,630	6,835	3,231	13,000
		3.5L GTDI			5,245	3,371	1,333	4,704	4,630	6,300	3,400	13,000
		3.5L GTDI	RWD		5,469	3,176	1,304	4,480	4,630	6,300	3,624	13,000
		3.5L TiVCT	AWD		5,320	3,317	1,313	4,630	4,630	6,300	2,900	13,000
		3.5L TiVCT	RWD		5,544	3,123	1,283	4,406	4,630	6,300	3,124	13,000
		3.5L GTDI		10,360	5,717	3,189	1,453	4,642	4,130	7,275	4,478	12,000
		3.5L GTDI	AWD		5,493	3,383	1,483	4,866	4,630	7,275	4,254	12,000
		3.5L GTDI	RWD	11,000	6,285	3,206	1,509	4,715	4,630	7,275	4,765	12,000
		3.5L GTDI	AWD		6,072	3,402	1,526	4,927	4,630	7,275	4,553	12,000

Body Builders Layout Book

TRANSIT

MODEL LINEUP: CUTAWAY

CUTAWAY												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
138		3.5L TiVCT	RWD	9,070	4,830	2,988	1,252	4,240	4,130	5,515	3,290	12,000
		3.5L GTDI			4,756	3,041	1,273	4,314	4,130	5,515	3,216	12,600
		3.5L TiVCT	AWD		4,623	3,183	1,264	4,447	4,630	5,515	3,083	12,000
		3.5L GTDI			4,548	3,236	1,285	4,521	4,630	5,515	3,009	12,600
		3.5L TiVCT	RWD	9,500	5,260	2,988	1,252	4,240	4,130	5,750	3,290	13,000
		3.5L GTDI			5,186	3,041	1,273	4,314	4,130	5,750	4,266	13,000
		3.5L TiVCT	AWD		5,053	3,183	1,264	4,447	4,630	5,750	3,083	12,000
		3.5L GTDI			4,978	3,236	1,285	4,521	4,630	5,750	4,059	13,000
		3.5L GTDI	RWD	9,900	5,420	3,041	1,439	4,480	4,130	6,835	3,624	12,000
		3.5L GTDI	AWD		5,195	3,236	1,468	4,704	4,630	6,835	3,400	13,000
		3.5L TiVCT	RWD	9,950	5,544	2,987	1,418	4,405	4,130	6,835	3,125	13,000
		3.5L GTDI			5,470	3,041	1,439	4,480	4,130	6,835	3,624	13,000
		3.5L TiVCT	AWD		5,319	3,182	1,448	4,630	4,630	6,835	2,900	12,000
		3.5L GTDI			5,245	3,236	1,468	4,704	4,630	6,835	3,400	12,600
		3.5L GTDI	RWD	10,360	5,899	3,027	1,433	4,461	4,130	7,275	4,659	12,000
		3.5L GTDI	AWD		5,674	3,222	1,463	4,685	4,630	7,275	4,435	12,600
		3.5L GTDI	RWD	11,000	6,466	3,044	1,489	4,533	4,630	7,275	4,947	15,000
		3.5L GTDI	AWD		6,253	3,241	1,506	4,747	4,630	7,275	4,733	15,000
156		3.5L TiVCT	RWD	9,070	4,770	3,040	1,259	4,299	4,130	5,515	3,231	12,000
		3.5L GTDI			4,696	3,094	1,280	4,374	4,130	5,515	3,156	12,600
		3.5L TiVCT	AWD		4,568	3,232	1,270	4,502	4,630	5,515	3,028	12,000
		3.5L GTDI			4,494	3,285	1,291	4,576	4,630	5,515	2,954	12,600
		3.5L TiVCT	RWD	9,500	5,201	3,040	1,259	4,299	4,130	5,750	3,231	13,000
		3.5L GTDI			5,127	3,093	1,280	4,373	4,130	5,750	4,207	13,000
		3.5L TiVCT	AWD		4,998	3,231	1,270	4,501	4,630	5,750	3,029	12,000
		3.5L GTDI			4,924	3,285	1,290	4,575	4,630	5,750	4,005	13,000
		3.5L GTDI	RWD	9,900	5,358	3,097	1,445	4,542	4,130	6,835	3,562	12,000
		3.5L GTDI	AWD		5,138	3,288	1,473	4,761	4,630	6,835	3,343	13,000
		3.5L TiVCT	RWD		5,601	3,040	1,259	4,299	4,630	6,300	3,231	13,000
		3.5L TiVCT	AWD		5,398	3,231	1,270	4,501	4,630	6,300	3,029	13,000
		3.5L GTDI			5,307	3,285	1,308	4,593	4,630	6,300	3,511	12,000
		3.5L GTDI	RWD		5,527	3,093	1,280	4,373	4,630	6,300	3,731	12,600
		3.5L TiVCT		9,950	5,482	3,043	1,424	4,467	4,130	6,835	3,063	12,000
		3.5L GTDI			5,408	3,097	1,445	4,542	4,130	6,835	3,562	12,600
		3.5L TiVCT	AWD		5,262	3,235	1,453	4,687	4,630	6,835	2,843	15,000
		3.5L GTDI			5,188	3,288	1,473	4,761	4,630	6,835	3,343	15,000
		3.5L GTDI			5,357	3,285	1,308	4,593	4,630	6,300	3,511	12,000
		3.5L GTDI	RWD		5,577	3,093	1,280	4,373	4,630	6,300	3,731	12,000
		3.5L TiVCT	AWD		5,431	3,231	1,287	4,519	4,630	6,300	3,011	13,000
		3.5L TiVCT	RWD		5,651	3,040	1,259	4,299	4,630	6,300	3,231	13,000
		3.5L GTDI		10,360	5,790	3,128	1,441	4,570	4,130	7,275	4,550	13,000
		3.5L GTDI	AWD		5,570	3,320	1,469	4,789	4,630	7,275	4,331	13,000
		3.5L GTDI	RWD	11,000	6,357	3,145	1,497	4,642	4,630	7,275	4,838	12,000
		3.5L GTDI	AWD		6,149	3,338	1,512	4,851	4,630	7,275	4,629	12,000

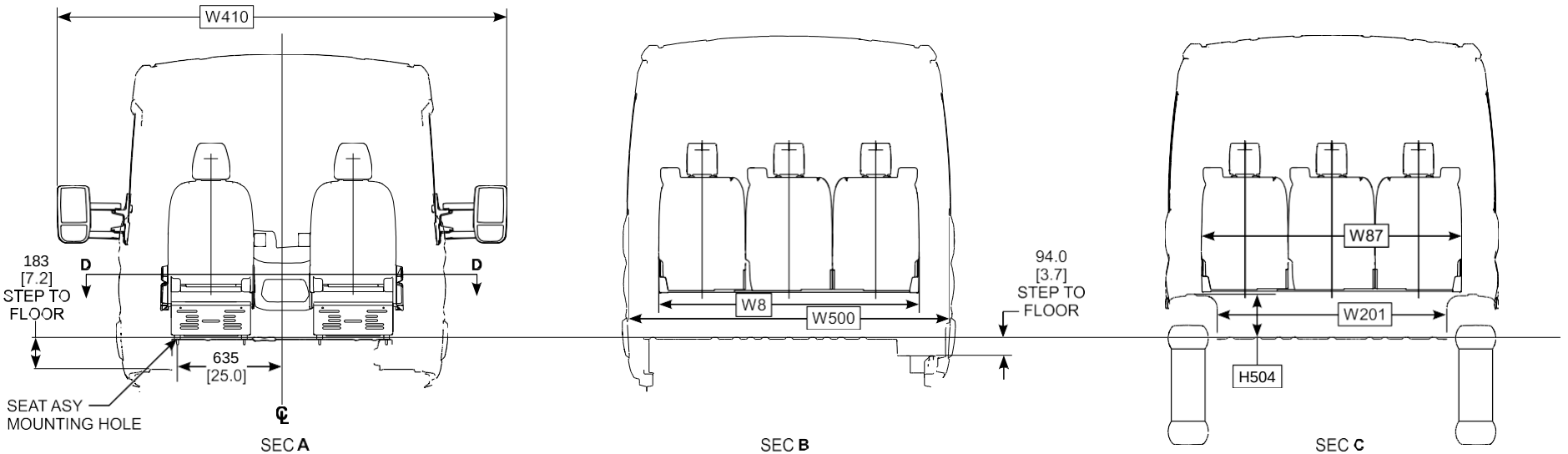
TRANSIT

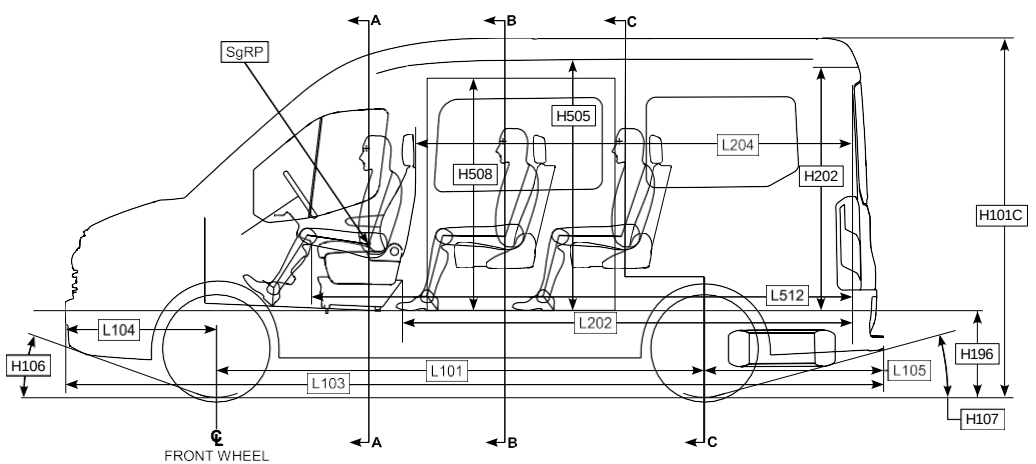
MODEL LINEUP: CUTAWAY

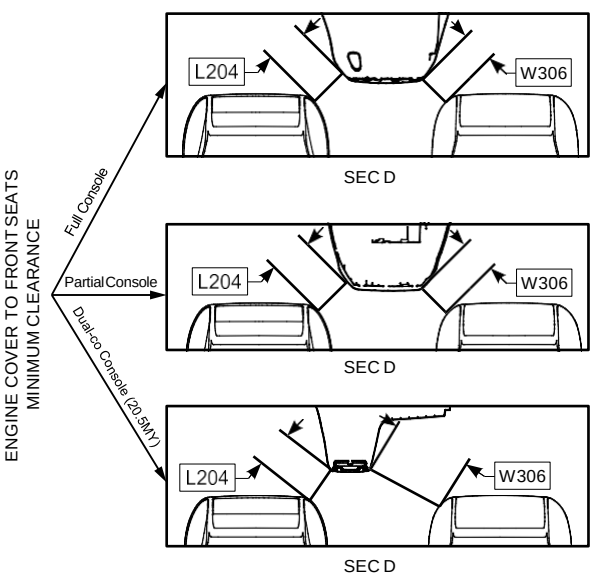
CUTAWAY												
						Base Curb Weight			GAWR			
WB (in)	Roof (in)	Eng	Drive Type	GVWR (Lbs)	MAX Advert'd Payload	Front	Rear	Total	Max Front	Max Rear	Total ARC	Max GCWR
178		3.5L GTDI	RWD	9,500	5,057	3,152	1,290	4,443	4,130	5,750	4,137	13,000
		3.5L GTDI	AWD		4,833	3,347	1,320	4,667	4,630	5,750	3,913	13,000
		3.5L TiVCT	RWD		5,131	3,099	1,270	4,368	4,130	5,750	3,162	12,000
		3.5L TiVCT	AWD		4,907	3,293	1,299	4,592	4,630	5,750	2,938	12,000
		3.5L GTDI	RWD	9,900	5,288	3,156	1,456	4,611	4,130	6,835	3,493	13,000
		3.5L GTDI			5,064	3,350	1,485	4,835	4,630	6,835	3,269	13,000
		3.5L GTDI	AWD		5,233	3,347	1,320	4,667	4,630	6,300	3,437	13,000
		3.5L GTDI	RWD		5,457	3,152	1,290	4,443	4,630	6,300	3,661	13,000
		3.5L TiVCT			5,531	3,099	1,270	4,368	4,630	6,300	3,162	12,000
		3.5L TiVCT	AWD		5,307	3,293	1,299	4,592	4,630	6,300	2,938	12,000
		3.5L TiVCT	RWD	9,950	5,413	3,102	1,435	4,537	4,130	6,835	2,993	12,000
		3.5L GTDI			5,338	3,156	1,456	4,611	4,130	6,835	3,493	13,000
		3.5L TiVCT	AWD		5,189	3,296	1,464	4,761	4,630	6,835	2,769	12,000
		3.5L GTDI			5,114	3,350	1,485	4,835	4,630	6,835	3,269	13,000
		3.5L GTDI			5,283	3,347	1,320	4,667	4,630	6,300	3,437	13,000
		3.5L GTDI	RWD		5,507	3,152	1,290	4,443	4,630	6,300	3,661	13,000
		3.5L TiVCT	AWD		5,357	3,293	1,299	4,592	4,630	6,300	2,938	12,000
		3.5L TiVCT	RWD		5,581	3,099	1,270	4,368	4,630	6,300	3,162	12,000
		3.5L GTDI		10,360	5,781	3,147	1,431	4,578	4,130	7,275	4,542	13,000
		3.5L GTDI	AWD		5,557	3,341	1,461	4,802	4,630	7,275	4,318	13,000
		3.5L GTDI	RWD	11,000	6,349	3,164	1,487	4,651	4,630	7,275	4,829	15,000
		3.5L GTDI	AWD		6,136	3,360	1,504	4,863	4,630	7,275	4,617	15,000
178		BEV-C0	RWD	9,500	4,513	2,942	2,044	4,986	3,815	6,000	3,594	0
		BEV-C1			4,077	3,196	2,227	5,423	4,130	6,000	3,157	0

TRANSIT

DIMENSIONAL DATA: 8-PASSENGER VAN (REGULAR WB)



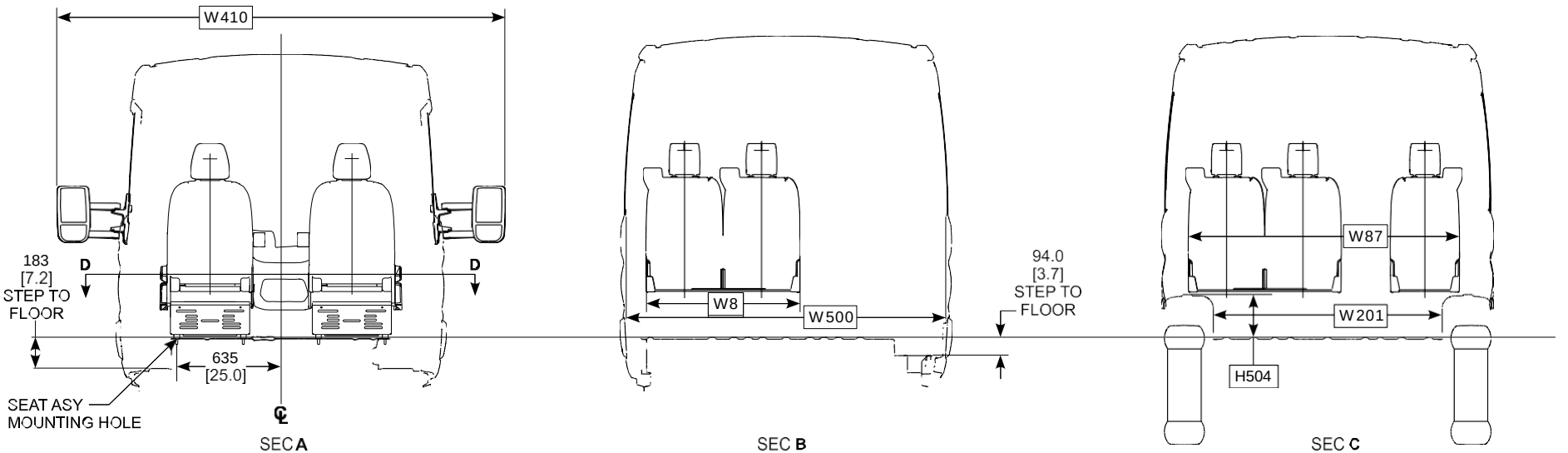


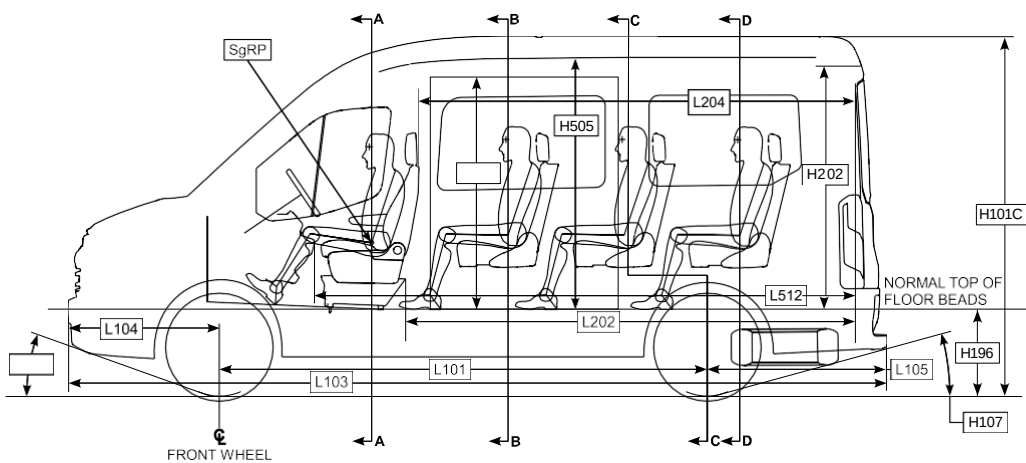


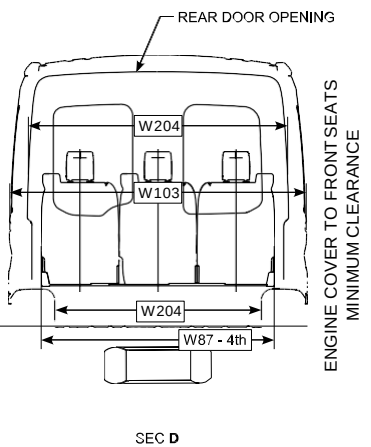
NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

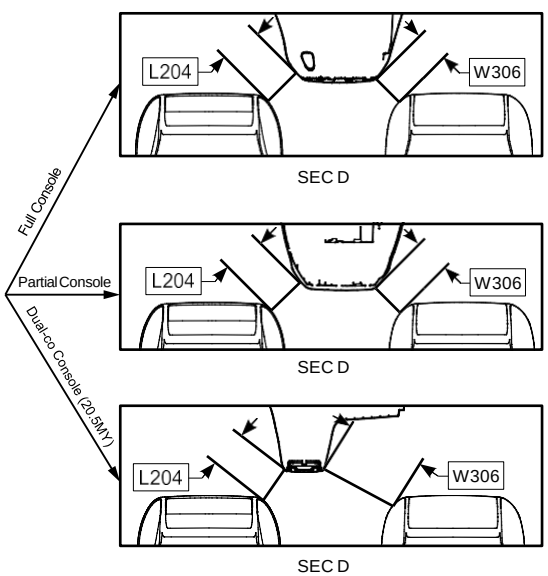
DIMENSIONAL DATA: 10-PASSENGER VAN (REGULAR WB)







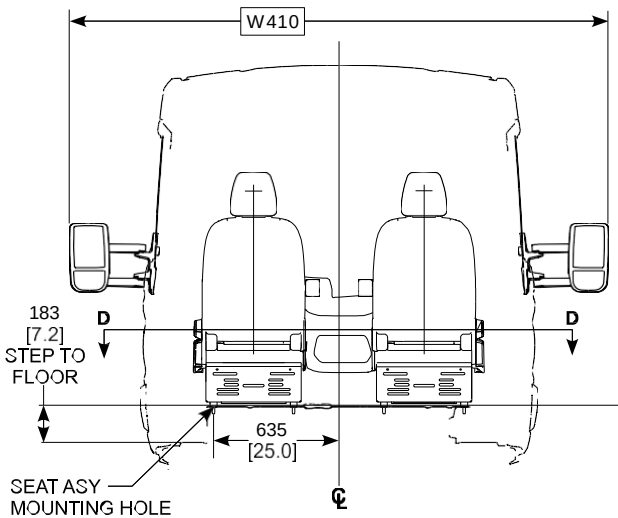
ENGINE COVER TO FRONT SEATS
MINIMUM CLEARANCE



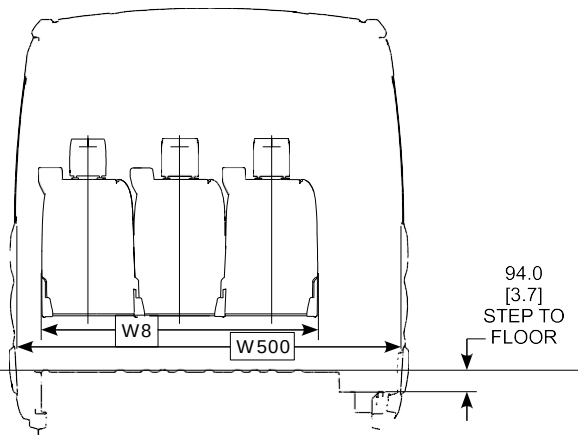
NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

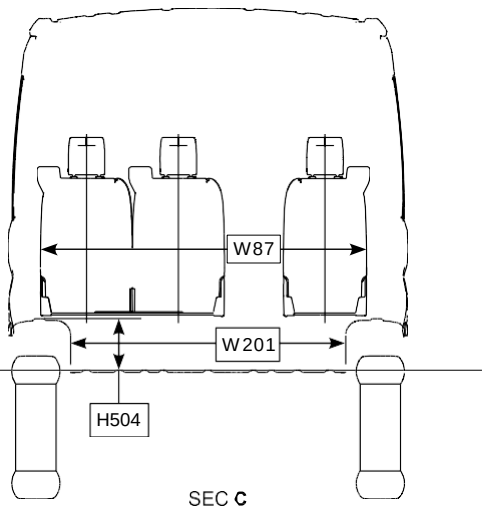
DIMENSIONAL DATA: 12-PASSENGER VAN (REGULAR WB)



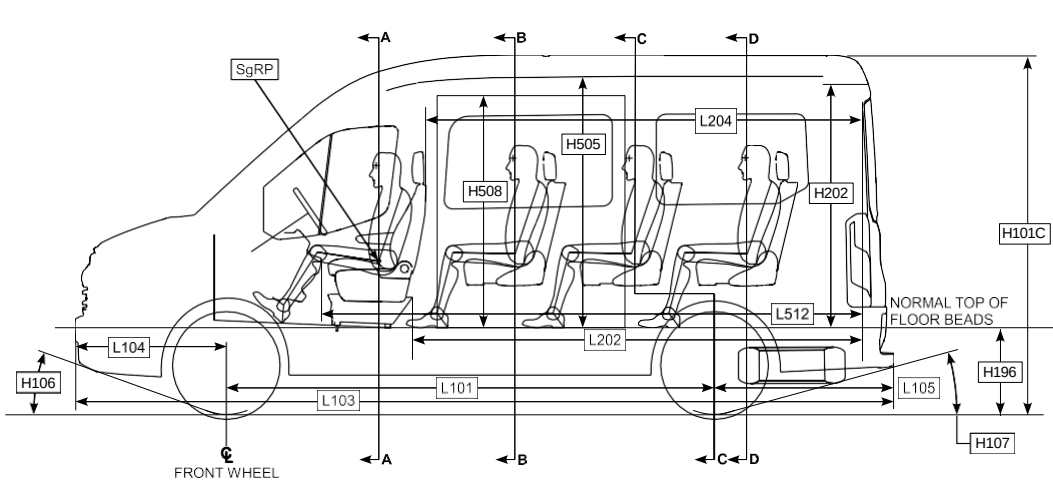
SEC **A**

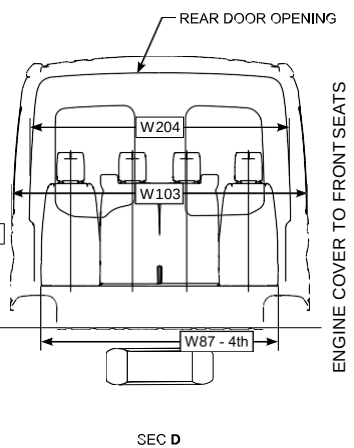


SEC **B**



SEC **C**





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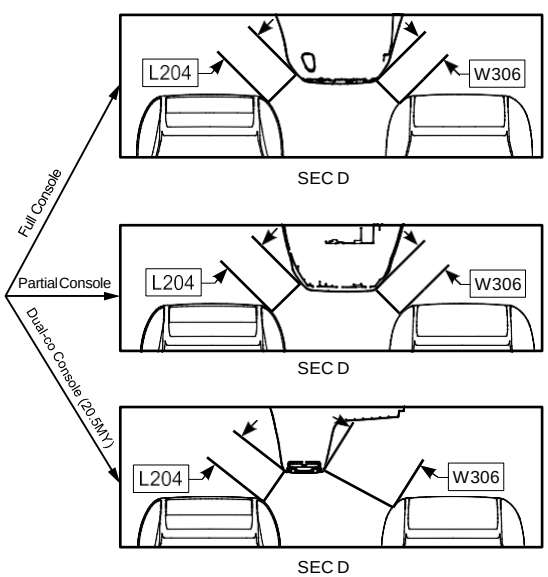


SEC D

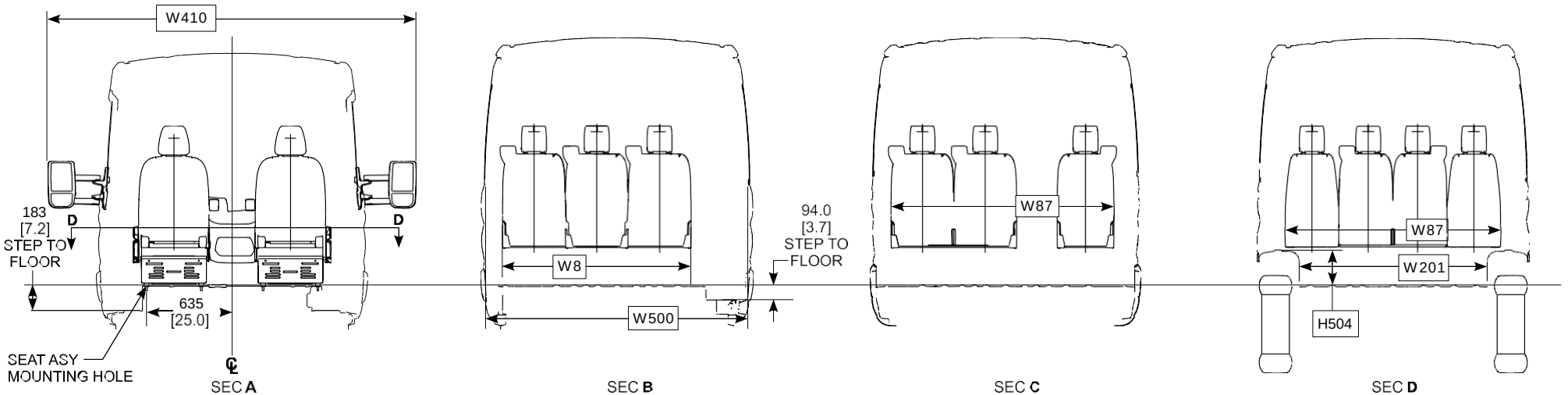
SEC D

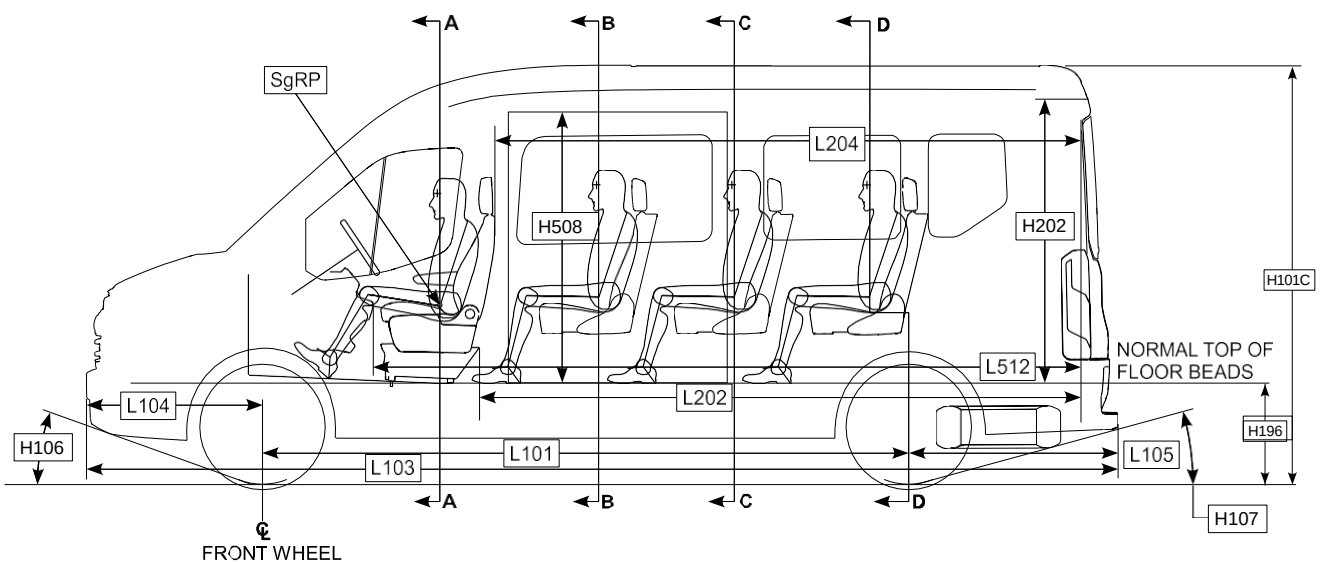
SEC D

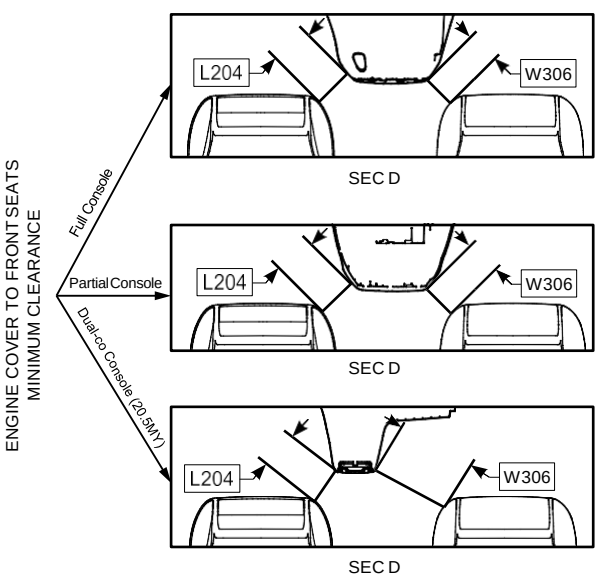
NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

DIMENSIONAL DATA: 12-PASSENGER VAN (LONG WB)



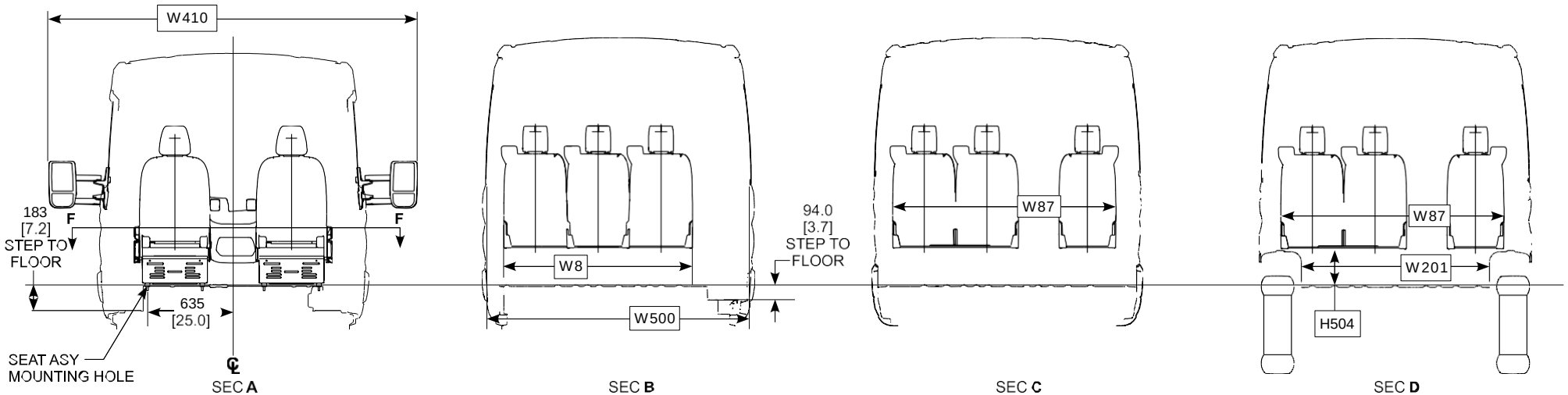


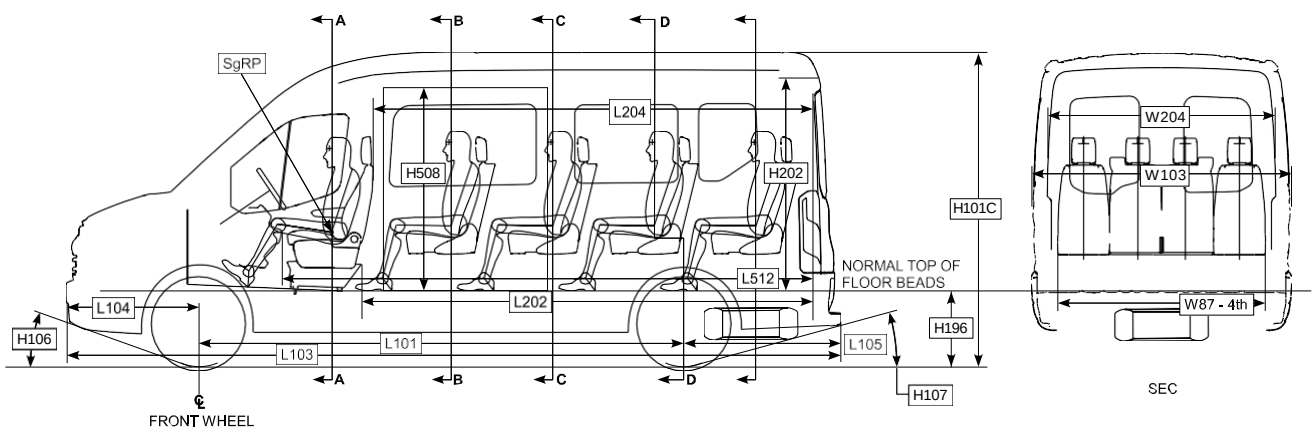


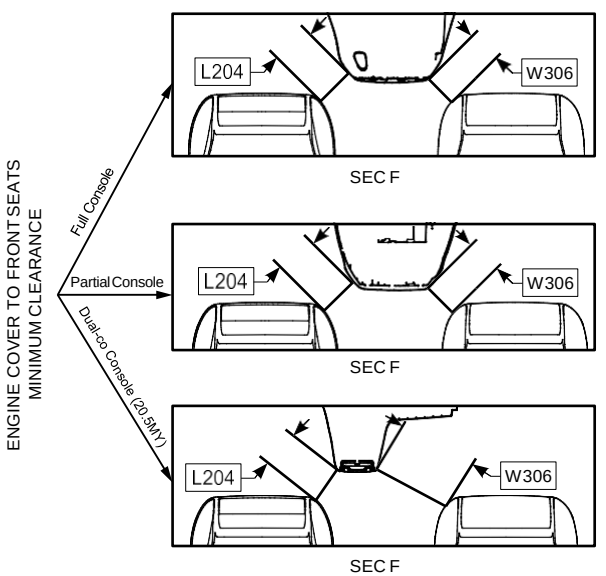
NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

DIMENSIONAL DATA: 15-PASSENGER VAN (LONG WB)



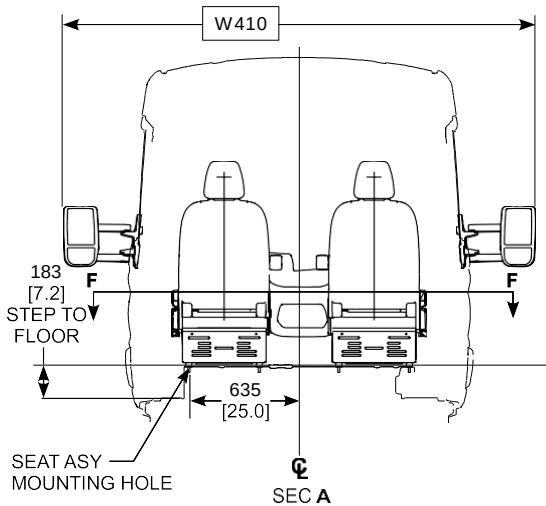


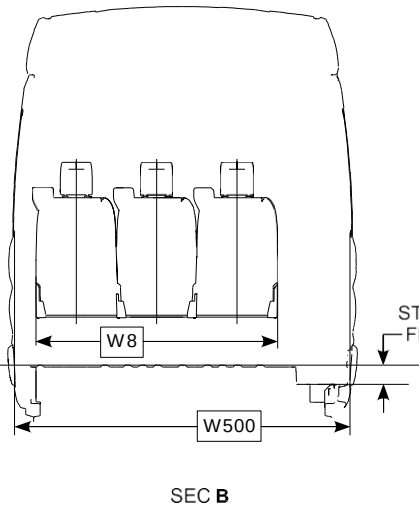


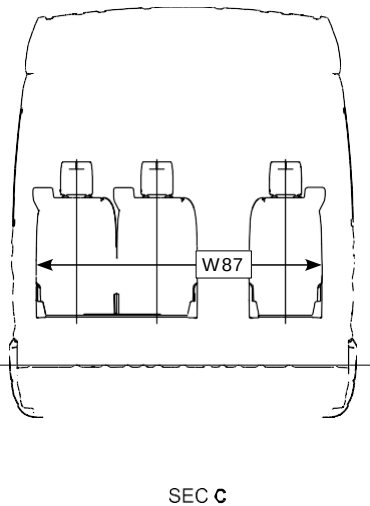
NOTE- [ ] DIMENSION ARE INCHES

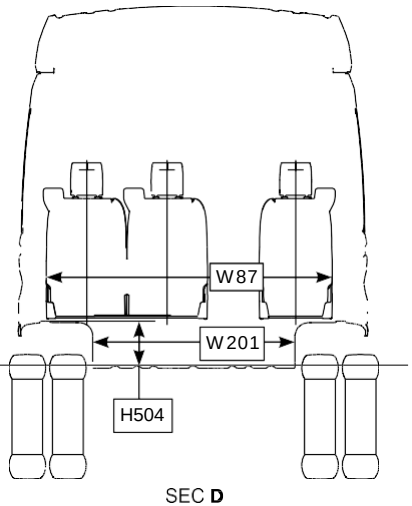
TRANSIT

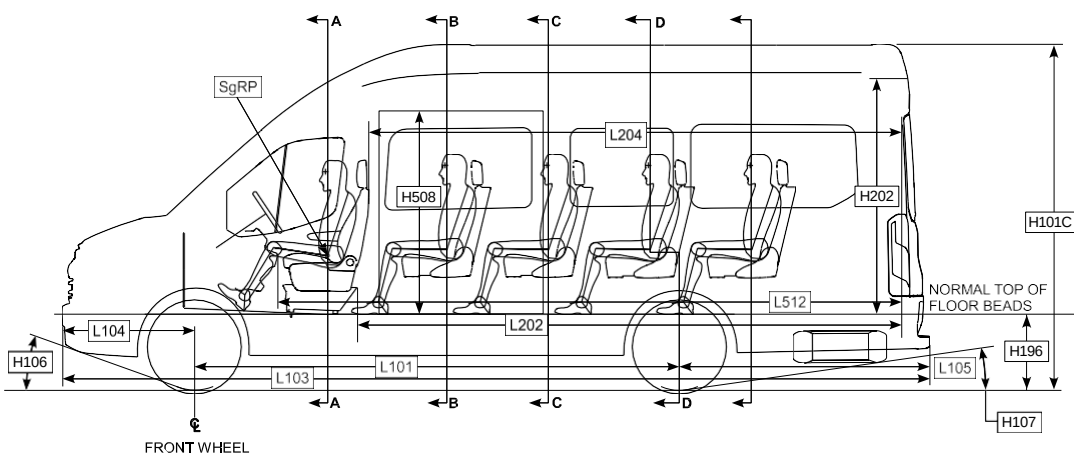
DIMENSIONAL DATA: 15-PASSENGER VAN (EXTENDED LENGTH LONG WB)

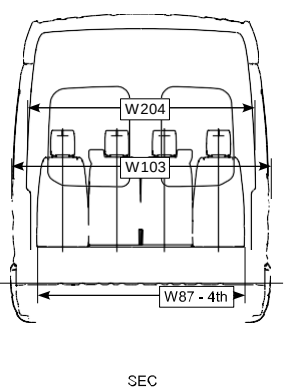




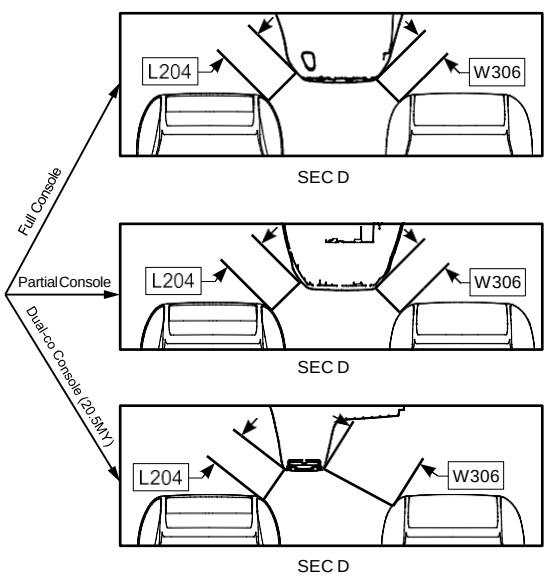








ENGINE COVER TO FRONT SEATS
MINIMUM CLEARANCE

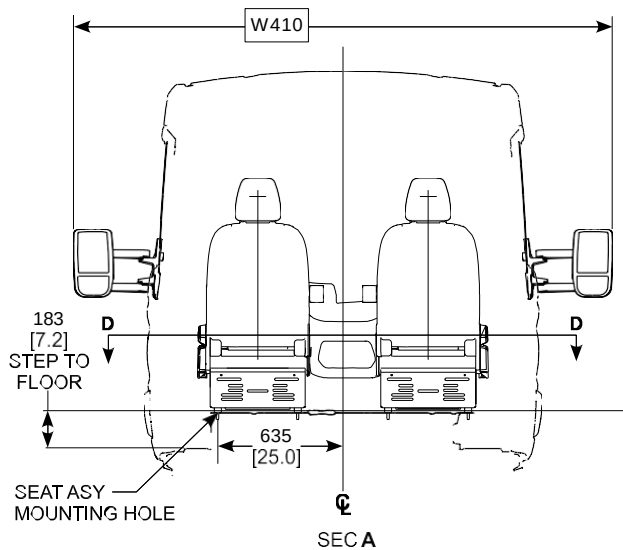


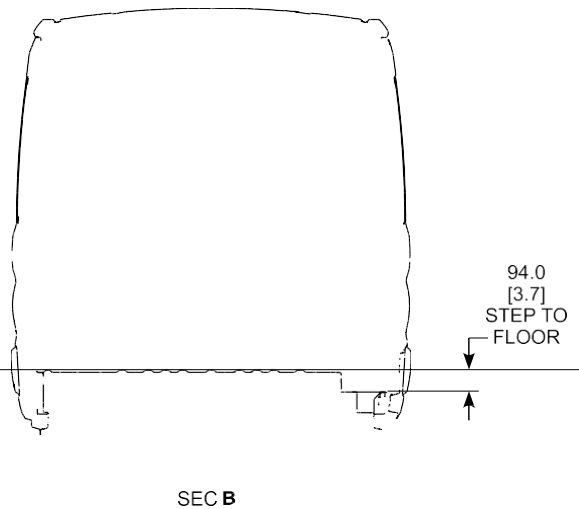
NOTE- [ ] DIMENSION ARE INCHES

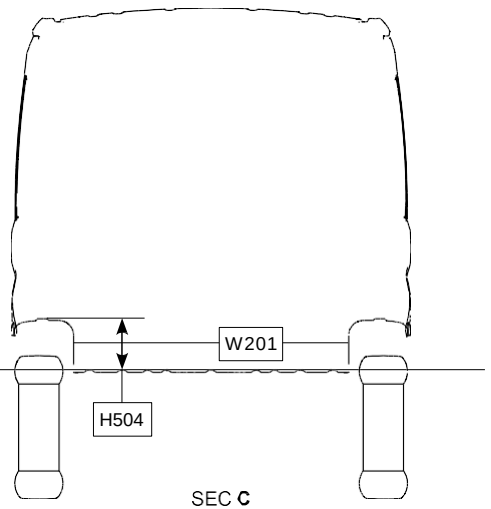
Body Builders Layout Book

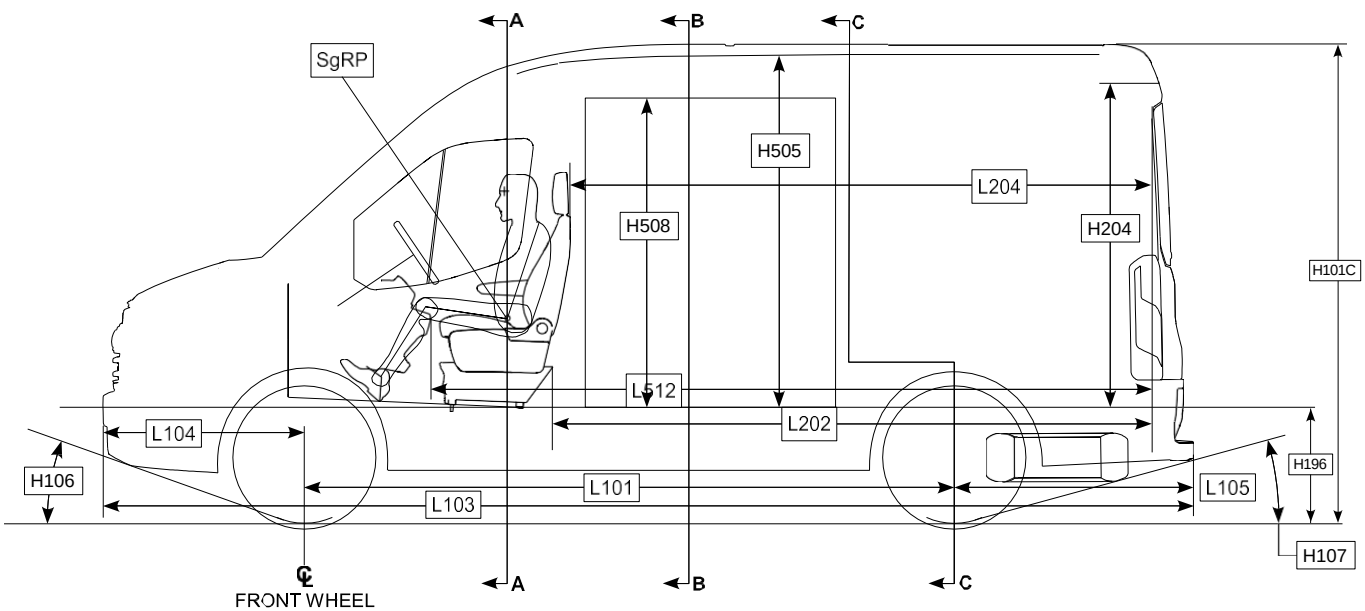
TRANSIT

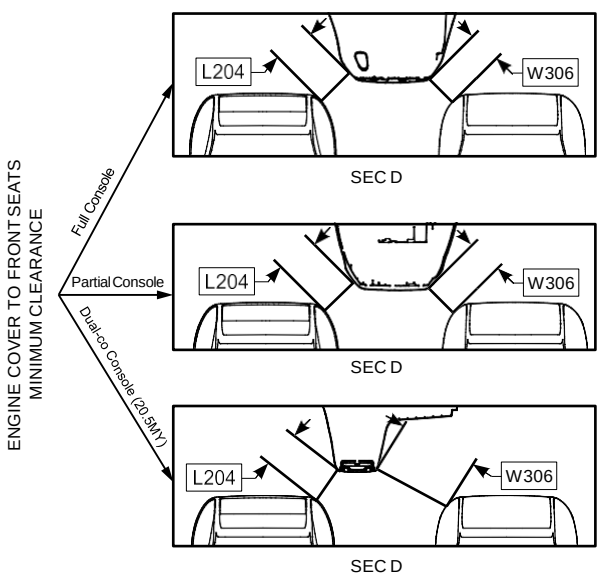
DIMENSIONAL DATA: 2-PASSENGER VAN











NOTE- [ ] DIMENSION ARE INCHES

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Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: WAGON/VAN DIMENSONAL CHART

	Wheelbase (Medium, Long, Jumbo)	Medium	Medium	Medium	Medium	Medium	Medium	Long	Long	Long	Long	Long	Long	Long	Long	Long	Jumbo	Jumbo	Medium	Medium	Long	Long	Long	Jumbo
	Passenger (Pass.) / Cargo Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Cargo Van	Cargo Van	Cargo Van	Cargo Van	Cargo Van	Cargo Van
	Roof (Low , Medium, High)	Low	Medium	Low	Low	Medium	Medium	Low	Medium	High	Low	Low	Medium	Medium	High	High	High	High	Low	Medium	Low	Medium	High	High
	Passenger Capacity (2, 5, 8, 10, 12, 15)	2	2	8	10	8	10	2	2	2	12	15	12	15	12	15	2	15	2	2	2	2	2	2
	Row s of Seating	1	1	3 (2-3-3)	4 (2-2-3-3)	3 (2-3-3)	4 (2-2-3-3)	1	1	1	4 (2-3-3-4)	5 (2-3-3-3-4)	4 (2-3-3-4)	5 (2-3-3-3-4)	4 (2-3-3-4)	5 (2-3-3-3-4)	1	5 (2-3-3-3-4)	1	1	1	1	1	1
Dim Code	**EXTERIOR**																							
L101	Wheelbase [in]	129.9	129.9	129.9	129.9	129.9	129.9	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	129.9	129.9	147.6	147.6	147.6	147.6
L103	Length [in]	219.9	217.8	219.9	219.9	217.8	217.8	237.6	235.5	235.5	237.6	237.6	235.5	235.5	235.5	235.5	263.9	263.9	219.9	217.8	237.6	235.5	235.5	263.9
L103	Length w ith optional extended bumper [mm]	-	219.9	-	-	219.9	219.9	-	237.6	237.6	-	-	237.6	237.6	237.6	237.6	266.1	266.1	-	219.9	-	237.6	237.6	266.1
H101C	Height [in]	82.3	98.8	82.2	82.2	98.7	98.7	82.9	99.8	109.6	82.4	82.4	99.2	99.2	108.6	108.6	109.4	107.7	82.2	99.1	82.9	101.3	109.6	110.4
W103	Width - Excluding Mirrors [in]	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	-
W410	Width - Including Mirrors [in]	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
W411	Width - Mirrors Folded [in]	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
W101C	Front Track [in]	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	-
W102C	Rear Track [in]	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	-
L104	Front Overhang [in]	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
L105	Rear Overhang [in]	49.7	47.6	49.7	49.7	47.6	47.6	49.7	47.6	47.6	49.7	49.7	47.6	47.6	47.6	47.6	76	76	49.7	47.6	49.7	47.6	47.6	76
L105	Rear Overhang with optional extended bumper [mm]	-	49.7	-	-	49.7	49.7	-	49.7	49.7	-	-	49.7	49.7	49.7	49.7	78.1	78.1	-	49.7	-	49.7	49.7	78.1
H196	Load Height (Curb) [in]	28.2	28.2	28.2	28.2	28.2	28.2	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	27.8	27.8	28.9	28.9	28.7	28.7	28.7	28
H508	Side Cargo Door Opening Height [in]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.6	63	49.6	63	63	63
L508	Side Cargo Door Opening Width - Hinged [in]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51.2	51.2	51.2	51.2	51.2	51.2
L508	Side Cargo Door Opening Width - Sliding [in]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51.2	51.2	51.2	51.2	51.2	51.2
H202	Rear Cargo Door Opening Height [in]	46.9	62.8	46.9	46.9	62.8	62.8	46.9	62.8	72.2	46.9	46.9	62.8	62.8	72.2	72.2	72.2	72.2	49.5	64.9	49.5	64.9	74.3	74.3
W203	Rear Cargo Door Opening Width [in]	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	61.7	61.7	61.7	61.7	61.7	61.7
H106	Approach Angle (Degrees)	19.24	20	19.24	1.24	19.24	20	19.34	19.76	19.96	19.34	19.34	19.76	19.76	19.96	19.96	19.94	19.94	18.8	18.79	19.68	16.63	19.98	20.3
H107	Departure Angle (Degrees)	16.6	16.55	16.6	16.6	16.55	16.55	17.68	15.85	15.72	17.68	17.68	15.85	15.85	15.72	15.72	11.8	11.8	19.3	19.02	18.95	18.76	18.64	11.91
H147	Break over Angle (Degrees)	18.83	18.76	18.83	18.83	18.76	18.76	16.53	15.34	15.2	16.53	16.53	15.34	15.34	15.2	15.2	15.2	15.2	19.4	19.8	17.82	17.65	17.47	17.69
Dim Code	**INTERIOR**																							
H61	Head Room - First Row [in]	40.8	52	40.8	40.8	52	52	40.8	52	56.6	40.8	40.8	52	52	56.6	56.6	56.6	56.6	40.8	52	40.8	52	56.6	56.6
H63	Head Room - Second Row [in]	-	-	41.1	41.1	55.8	55.8	-	-	-	41.1	41.1	55.8	55.8	65.2	65.2	-	65.2	-	-	-	-	-	-
H86	Head Room - Third Row [in]	-	-	40.6	40.6	55.8	55.8	-	-	-	40.6	40.6	55.8	55.8	65.2	65.2	-	65.2	-	-	-	-	-	-
H86-4th	Head Room - Fourth Row [in]	-	-	-	38.7	-	55.8	-	-	-	38.7	38.7	55.8	55.8	65.2	65.2	-	65.2	-	-	-	-	-	-
H86-5th	Head Room - Fifth Row [in]	-	-	-	-	-	-	-	-	-	-	38.1	-	52.6	-	61.3	-	61.3	-	-	-	-	-	-
L33	Maximum Leg Room - First Row [in]	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
L34	Leg Room - First Row [in]	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
L51	Leg Room - Second Row [in]	-	-	33.7	33.7	33.7	33.7	-	-	-	33.7	33.7	33.7	33.7	33.7	33.7	-	33.7	-	-	-	-	-	-
L86	Leg Room - Third Row [in]	-	-	35.6	35.6	35.6	35.6	-	-	-	35.6	35.6	35.6	35.6	35.6	35.6	-	35.6	-	-	-	-	-	-
L86-4th	Leg Room - Fourth Row [in]	-	-	-	35.6	-	35.6	-	-	-	35.6	35.6	35.6	35.6	35.6	35.6	-	35.6	-	-	-	-	-	-
L86-5th	Leg Room - Fifth Row [in]	-	-	-	-	-	-	-	-	-	-	35.6	-	35.6	-	35.6	-	35.6	-	-	-	-	-	-
W5	Hip Room - First Row [in]	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
W6	Hip Room - Second Row [in]	-	-	69.6	69.6	69.6	69.6	-	-	-	69.6	69.6	69.6	69.6	69.6	69.6	-	69.6	-	-	-	-	-	-
W86	Hip Room - Third Row [in]	-	-	67.3	67.3	67.3	67.3	-	-	-	67.3	67.3	67.3	67.3	67.3	67.3	-	67.3	-	-	-	-	-	-
W86-4th	Hip Room - Fourth Row [in]	-	-	-	68	-	68	-	-	-	68	68	68	68	68	68	-	68	-	-	-	-	-	-
W86-5th	Hip Room - Fifth Row [in]	-	-	-	-	-	-	-	-	-	-	68	-	68	-	68	-	68	-	-	-	-	-	-
W3	Shoulder Room - First Row [in]	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
W4	Shoulder Room - Second Row [in]	-	-	71.4	71.4	71.4	71.4	-	-	-	71.4	71.4	71.4	71.4	71.4	71.4	-	71.4	-	-	-	-	-	-
W85	Shoulder Room - Third Row [in]	-	-	67	67	67	67	-	-	-	67	67	67	67	67	67	-	67	-	-	-	-	-	-
W85-4th	Shoulder Room - Fourth Row [in]	-	-	-	67.8	-	67.8	-	-	-	67.8	67.8	67.8	67.8	67.8	67.8	-	67.8	-	-	-	-	-	-
W85-5th	Shoulder Room - Fifth Row [in]	-	-	-	-	-	-	-	-	-	-	67.8	-	67.8	-	67.8	-	67.8	-	-	-	-	-	-
L202	Cargo Length Front (at Floor) [in]	124	124	124	124	124	124	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	170.2	170.2	126	126	143.7	143.7	143.7	172.2
L204	Cargo Length Front (at Belt) [in]	115.1	115.1	115.1	115.1	115.1	115.1	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	161.3	161.3	115.9	115.9	133.6	133.6	133.6	162
W201	Cargo Width Betw een Wheelhouse [in]	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	54.8	54.8	54.8	54.8	54.8	
H505	Cargo Height Maximum [in]	52.8	67.6	52.8	52.8	67.6	67.6	52.8	67.6	77	52.8	52.8	67.6	67.6	77	77	77	77	56.9	72	56.9	72	81.5	81.5
Dim Code	**CARGO CAPACITY**																							
V6	Cargo Volume Behind First Row (SUV/Van)	224.5	292.7	224.5	224.5	292.7	292.7	256.4	336.1	382.6	256.4	223.5	336.1	303.1	382.6	349.6	461.9	425.4	275	351.4	309.5	398.1	450.7	543.2
V7	Cargo Volume Behind Second Row (SUV/Van)	-	-	151.8	151.8	197.9	197.9	-	-	-	183	150	239.8	206.8	273	240.1	-	313.1	-	-	-	-	-	-
V9	Cargo Volume Behind Third Row (SUV/Van)	-	-	94.2	94.2	125	125	-	-	-	124.5	91.5	166.9	133.9	190	157	-	230	-	-	-	-	-	-
V12	Cargo Volume Behind Fourth Row (SUV/Van)	-	-	-	-	-	-	-	-	-	70.1	48.9	93.9	72.8	107	85.8	-	184	-	-	-	-	-	-
V13	Cargo Volume Behind Fifth Row (SUV/Van)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.5	-	-	-	-	-	-
V14	Cargo Volume - Max (Van)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	317.8	405.6	352.3	452.2	511.9	604.4
V15	Cargo Volume - Front Seat (Van)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42.8	54.2	42.8	54.2	61.2	61.2

NOTE- [ ] DIMENSION ARE INCHES

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Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: WAGON/VAN DIMENSONAL CHART

	Wheelbase (Medium, Long, Jumbo)	Medium	Medium	Medium	Medium	Medium	Medium	Long	Long	Long	Long	Long	Long	Long	Long	Long	Jumbo	Jumbo	Medium	Medium	Long	Long	Long	Jumbo
	Bus / Passenger (Pass.) Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Pass. Van	Cargo Van	Cargo Van	Cargo Van	Cargo Van	Cargo Van	Cargo Van
	Roof (Low , Medium, High)	Low	Medium	Low	Low	Medium	Medium	Low	Medium	High	Low	Low	Medium	Medium	High	High	High	High	Low	Medium	Low	Medium	High	High
	Passenger Capacity (2, 5, 8, 10, 12, 15)	2	2	8	10	8	10	2	2	2	12	15	12	15	12	15	2	15	2	2	2	2	2	2
	Row s of Seating	1	1	3 (2-3-3)	4 (2-2-3-3)	3 (2-3-3)	4 (2-2-3-3)	1	1	1	4 (2-3-3-4)	5 (2-3-3-3-4)	4 (2-3-3-4)	5 (2-3-3-3-4)	4 (2-3-3-4)	5 (2-3-3-3-4)	1	5 (2-3-3-3-4)	1	1	1	1	1	1
Dim Code	**EXTERIOR**																							
L101	Wheelbase [mm]	3300	3300	3300	3300	3300	3300	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3750	3300	3300	3750	3750	3750	3750
L103	Length [mm]	5585	5531	5585	5585	5531	5531	6035	5981	5981	6035	6035	5981	5981	5981	5981	6704	6704	5585	5531	6035	5981	5981	6704
L103	Length w ith optional extended bumper [mm]	-	5585	-	-	5585	5585	-	6035	6035	-	-	6035	6035	6035	6035	6758	6758	-	5585	-	6035	6035	6758
H101C	Height [mm]	2090.5	2510.5	2089	2089	2506	2506	2105	2534.9	2784.5	2092	2092	2520	2520	2759	2759	2778	2736	2088	2518	2105	2574	2785	2803
W103	Width - Excluding Mirrors [mm]	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066	2066 / 2126
W410	Width - Including Mirrors [mm]	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474
W411	Width - Mirrors Folded [mm]	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114	2114
W101C	Front Track [mm]	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732 / 1740
W102C	Rear Track [mm]	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743 / 1670
L104	Front Overhang [mm]	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023
L105	Rear Overhang [mm]	1262	1208	1262	1262	1208	1208	1262	1208	1208	1262	1262	1208	1208	1208	1208	1931	1931	1262	1208	1262	1208	1208	1931
L105	Rr Overhang with optional ext'd bumper [mm]	-	1262	-	-	1262	1262	-	1262	1262	-	-	1262	1262	1262	1262	1985	1985	-	1262	-	1262	1262	1985
H196	Load Height (Curb) [mm]	717	717	717	717	717	717	731	731	731	731	731	731	731	731	731	707	707	733	733	730	730	730	712
H508	Side Cargo Door Opening Height [mm]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1260	1601	1260	1601	1601	1601
L508	Side Cargo Door Opening Width - Hinged [mm]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1300	1300	1300	1300	1300	1300
L508	Side Cargo Door Opening Width - Sliding [mm]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1300	1300	1300	1300	1300	1300
H202	Rear Cargo Door Opening Height [mm]	1192	1595	1192	1192	1595	1595	1192	1595	1834	1192	1192	1595	1595	1834	1834	1834	1834	1258	1648	1258	1648	1887	1887
W203	Rear Cargo Door Opening Width [mm]	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1520	1568	1568	1568	1568	1568	1568
Dim Code	**INTERIOR**																							
H61	Head Room - First Row [mm]	1037	1320	1037	1037	1320	1320	1037	1320	1437	1037	1037	1320	1320	1437	1437	1437	1437	1037	1320	1037	1320	1437	1437
H63	Head Room - Second Row [mm]	-	-	1045	1045	1417	1417	-	-	-	1045	1045	1417	1417	1656	1656	-	1656	-	-	-	-	-	-
H86	Head Room - Third Row [mm]	-	-	1032	1032	1417	1417	-	-	-	1032	1032	1417	1417	1657	1657	-	1657	-	-	-	-	-	-
H86-4th	Head Room - Fourth Row [mm]	-	-	-	983	-	1417	-	-	-	983	983	1417	1417	1657	1657	-	1657	-	-	-	-	-	-
H86-5th	Head Room - Fifth Row [mm]	-	-	-	-	-	-	-	-	-	-	969	-	1336	-	1557	-	1557	-	-	-	-	-	-
L33	Maximum Leg Room - First Row [mm]	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
L34	Leg Room - First Row [mm]	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009
L51	Leg Room - Second Row [mm]	-	-	855	855	855	855	-	-	-	855	855	855	855	855	855	-	855	-	-	-	-	-	-
L86	Leg Room - Third Row [mm]	-	-	903	903	903	903	-	-	-	903	903	903	903	903	903	-	903	-	-	-	-	-	-
L86-4th	Leg Room - Fourth Row [mm]	-	-	-	903	-	903	-	-	-	903	903	903	903	903	903	-	903	-	-	-	-	-	-
L86-5th	Leg Room - Fifth Row [mm]	-	-	-	-	-	-	-	-	-	-	903	-	903	-	903	-	903	-	-	-	-	-	-
W5	Hip Room - First Row [mm]	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543	1543
W6	Hip Room - Second Row [mm]	-	-	1767	1767	1767	1767	-	-	-	1767	1767	1767	1767	1767	1767	-	1767	-	-	-	-	-	-
W86	Hip Room - Third Row [mm]	-	-	1709	1709	1709	1709	-	-	-	1709	1709	1709	1709	1709	1709	-	1709	-	-	-	-	-	-
W86-4th	Hip Room - Fourth Row [mm]	-	-	-	1728	-	1728	-	-	-	1728	1728	1728	1728	1728	1728	-	1728	-	-	-	-	-	-
W86-5th	Hip Room - Fifth Row [mm]	-	-	-	-	-	-	-	-	-	-	1728	-	1728	-	1728	-	1728	-	-	-	-	-	-
W3	Shoulder Room - First Row [mm]	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724
W4	Shoulder Room - Second Row [mm]	-	-	1813	1813	1813	1813	-	-	-	1813	1813	1813	1813	1813	1813	-	1813	-	-	-	-	-	-
W85	Shoulder Room - Third Row [mm]	-	-	1703	1703	1703	1703	-	-	-	1703	1703	1703	1703	1703	1703	-	1703	-	-	-	-	-	-
W85-4th	Shoulder Room - Fourth Row [mm]	-	-	-	1722	-	1722	-	-	-	1722	1722	1722	1722	1722	1722	-	1722	-	-	-	-	-	-
W85-5th	Shoulder Room - Fifth Row [mm]	-	-	-	-	-	-	-	-	-	-	1722	-	1722	-	1722	-	1722	-	-	-	-	-	-
L202	Cargo Length Front (at Floor) [mm]	3150	3150	3150	3150	3150	3150	3600	3600	3600	3600	3600	3600	3600	3600	3600	4323	4323	3200	3200	3650	3650	3650	4373
L204	Cargo Length Front (at Belt) [mm]	2924	2924	2924	2924	2924	2924	3374	3374	3374	3374	3374	3374	3374	3374	3374	4097	4097	2943	2943	3393	3393	3393	4116
W201	Cargo Width Betw een Wheelhouse [mm]	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364	1392	1392	1392	1392	1392	1392 / 1154
H505	Cargo Height Maximum [mm]	1340	1718	1340	1340	1718	1718	1340	1718	1956	1340	1340	1718	1718	1956	1956	1956	1956	1446	1830	1446	1830	2069	2069
Dim Code	**CARGO CAPACITY**																							
V6	Cargo Volume Behind First Row (SUV/Van)	6357.1	8288.3	6356	6357.1	8288.1	8288.3	7260.4	9517.3	10834	7260.4	6328.8	9517.3	8582.8	10834	9899.6	13079.6	12046	6984.6	8925.9	7862.6	10110.6	11447.1	13797.3
V7	Cargo Volume Behind Second Row (SUV/Van)	-	-	4298.4	4298.5	5605	5603.9	-	-	-	5182	4247.5	6790.4	5855.9	7730.5	6798.9	-	8866	-	-	-	-	-	-
V9	Cargo Volume Behind Third Row (SUV/Van)	-	-	2668	2667.4	3539.5	3539.6	-	-	-	3525.4	2591	4726.1	3791.6	5380.2	4445.7	-	6512.9	-	-	-	-	-	-
V12	Cargo Volume Behind Fourth Row (SUV/Van)	-	-	-	-	-	-	-	-	-	1985	1384.7	2658.9	2061.5	3029.9	2429.6	-	5210.3	-	-	-	-	-	-
V13	Cargo Volume Behind Fifth Row (SUV/Van)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2845.8	-	-	-	-	-	-
V14	Cargo Volume - Max (Van)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8071.5	10301.4	8949.5	11486.1	13002.3	15352.5
V15	Cargo Volume - Front Seat (Van)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1086.9	1375.5	1086.9	1375.5	1555.2	1555.2

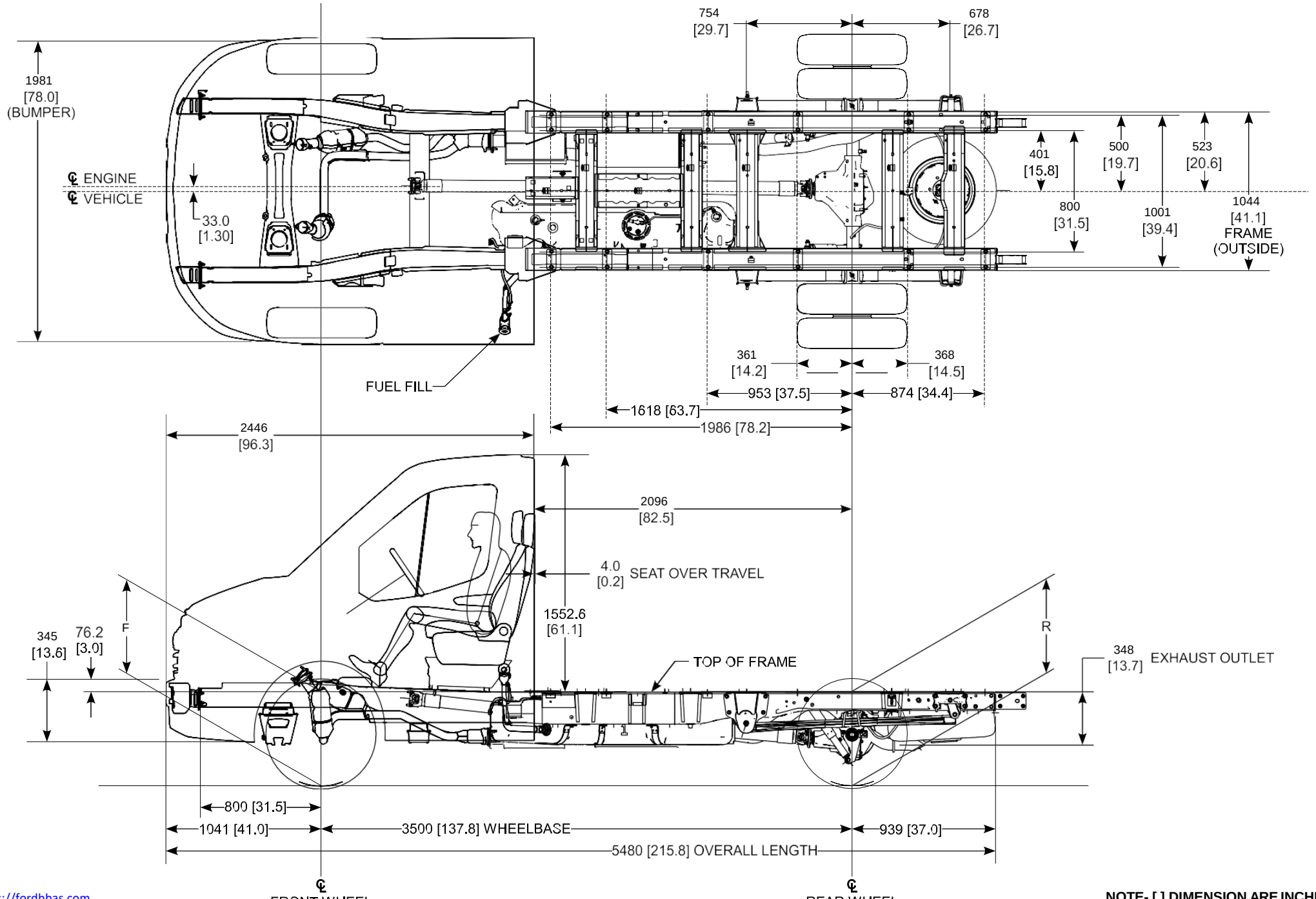
NOTE- [ ] DIMENSION ARE INCHES

Ford PRO

Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: CHASSIS CAB/CUTAWAY (138” WB)



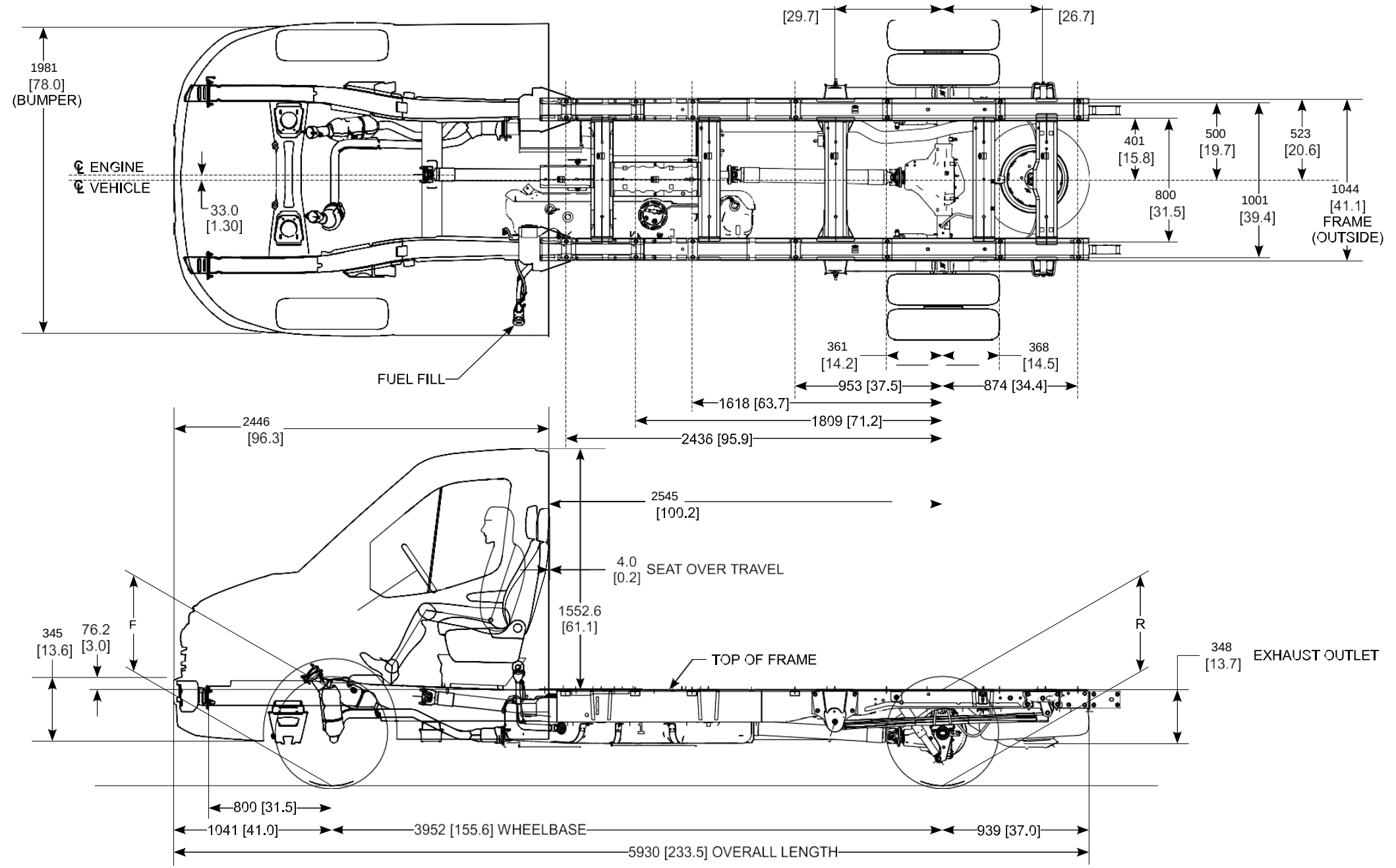
NOTE- [ ] DIMENSION ARE INCHES

Ford PRO

Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: CHASSIS CAB/CUTAWAY (156” WB)



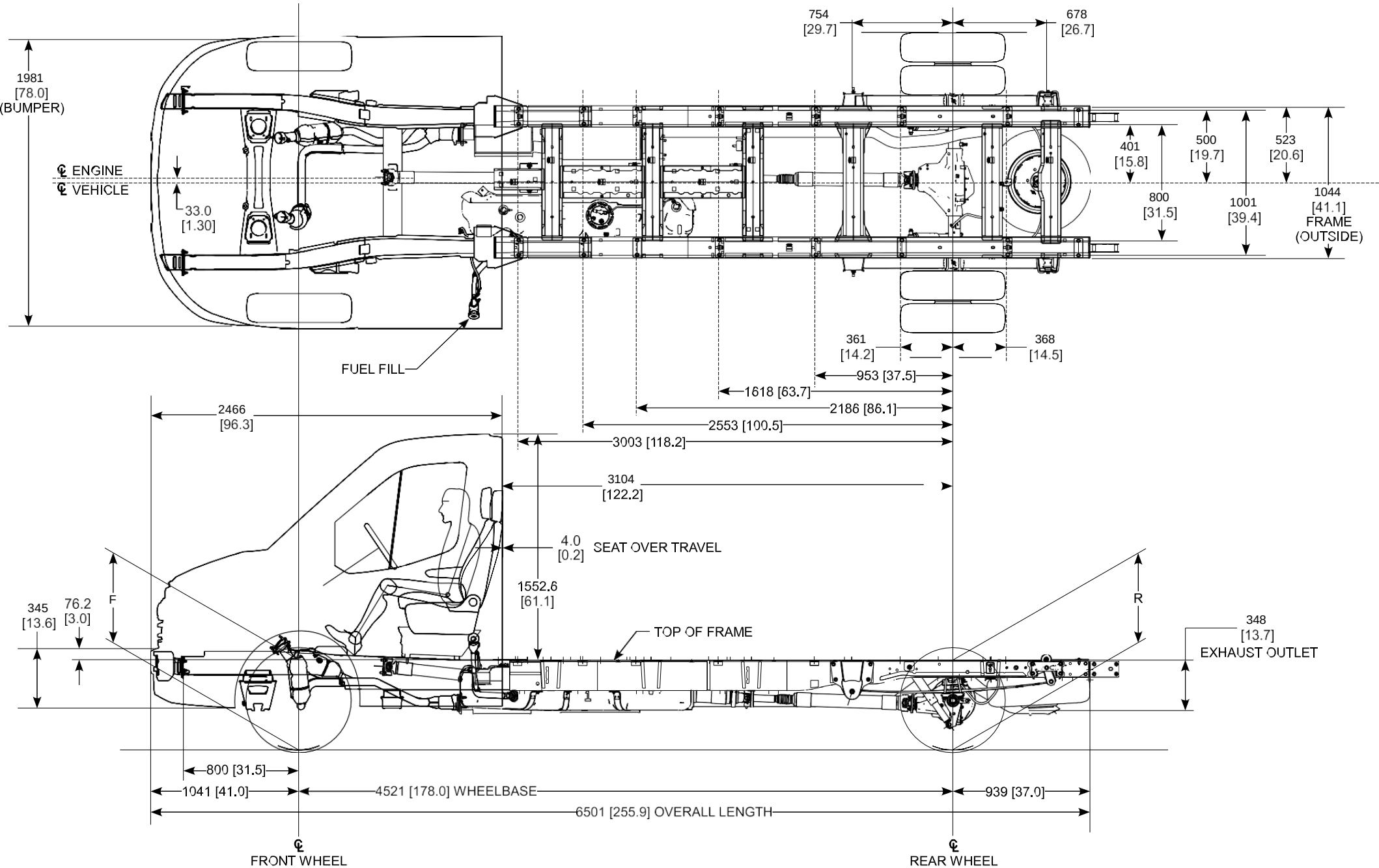
NOTE- [ ] DIMENSION ARE INCHES

Ford PRO

Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: CHASSIS CAB/CUTAWAY (178” WB)



NOTE- [ ] DIMENSION ARE INCHES

Ford PRO

Body Builders Layout Book

TRANSIT

DIMENSIONAL DATA: CHASSIS CAB/CUTAWAY DIMENSONAL CHART

		REGULAR			LONG				JUMBO	
		T250	T350 HD	T350HD	T250	T350	T350HD	T350HD	T350HD	T350HD
CHASSIS CAB/CUTAWAY	**CODE**	SRW	DRW	DRW	SRW	SRW	DRW	DRW	DRW	DRW
WHEELBASE	**L101**	3504 [138]	3504 [138]	3504 [138]	3954 [155.7]	3954 [155.7]	3954 [155.7]	3954 [155.7]	4522 [178]	4522 [178]
OVERALL LENGTH	**L103**	5673 [223.3]	5673 [223.3]	5673 [223.3]	6123 [241.1]	6123 [241.1]	6123 [241.1]	6123 [241.1]	6691 [263.4]	6691 [263.4]
FRONT TRACK	**W101C**	1732 [68.2]	1740 [68.5]	1740 [68.5]	1732 [68.2]	1732 [68.2]	1740 [68.5]	1740 [68.5]	1740 [68.5]	1740 [68.5]
REAR TRACK	**W102C**	1743 [68.6]	1670 [65.7]	1670 [65.7]	1743 [68.6]	1743 [68.6]	1670 [65.7]	1670 [65.7]	1670 [65.7]	1670 [65.7]
REAR AXLE TO END OF FRAME (REAR OVERHANG)	**N/A**	1146 [45.1]	1146 [45.1]	1146 [45.1]	1146 [45.1]	1146 [45.1]	1146 [45.1]	1146 [45.1]	1146 [45.1]	1146 [45.1]
LOAD HEIGHT (LOADED)	**R**	634 [25]	627 [24.7]	616 [24.3]	656 [25.8]	645 [25.4]	649 [25.6]	643 [25.3]	633 [24.9]	624 [24.6]
HEIGHT AT TOP OF STEERING WHEEL (LOADED)	**N/A**	1537 [60.5]	1513 [59.6]	139 [5.5]	1529 [60.2]	1526 [60.1]	1503 [59.2]	1500 [59.1]	1523 [60]	1521 [59.9]
REAR AXLE CLEARANCE (LOADED)	**N/A**	141 [5.6]	140 [5.5]	139 [5.5]	155 [6.1]	151 [5.9]	1545 [60.8]	153 [6]	150 [5.9]	153 [6]

NOTE- [ ] DIMENSION ARE INCHES

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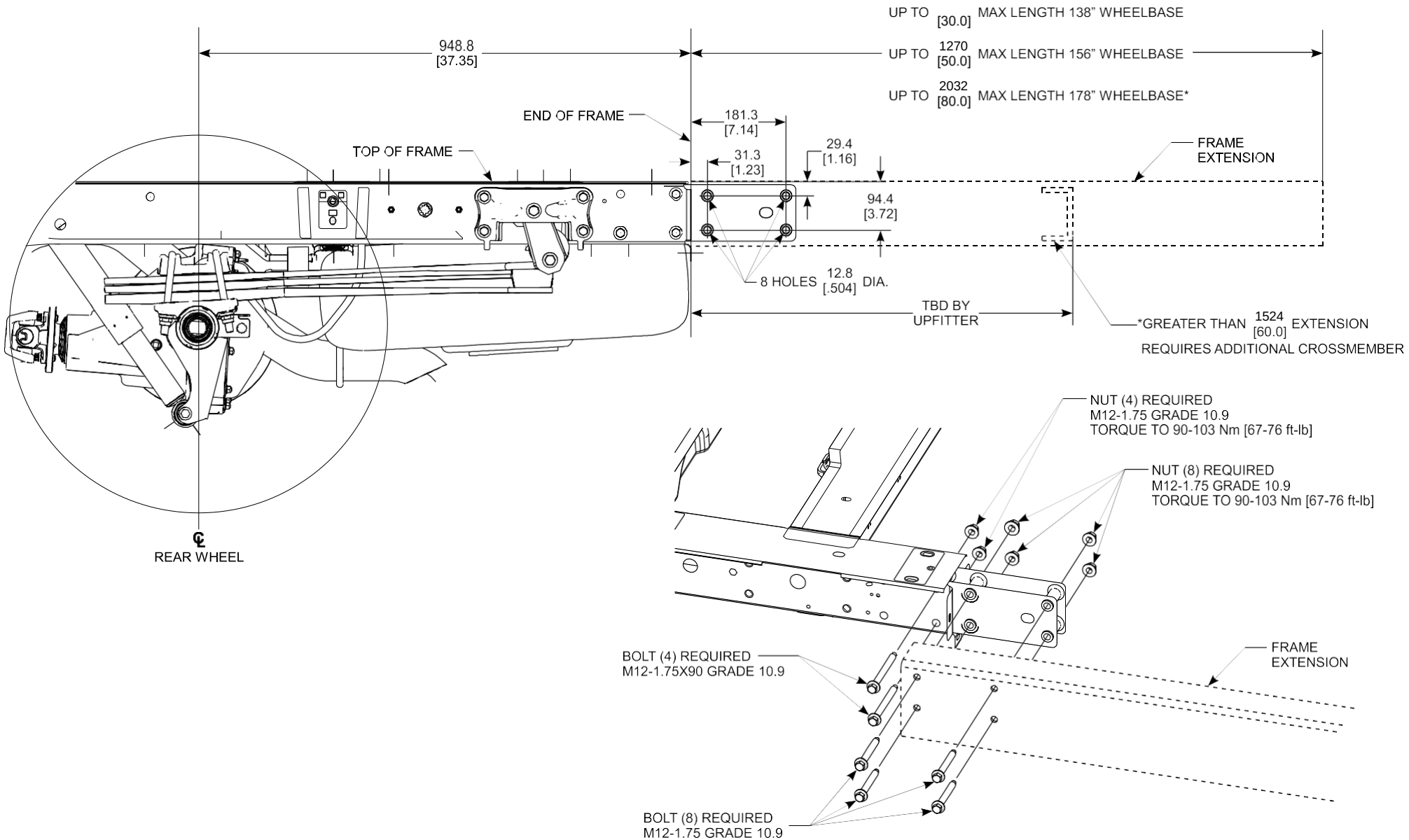
TRANSIT

DIMENSIONAL DATA: REAR FRAME EXTENSION (CHASSIS CAB & CUTAWAY)



NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

DIMENSIONAL DATA: CENTER OF GRAVITY REFERENCE DATA

PASSENGER LOAD[1]	
GVWR	P (kg [lb])
10,000 LB AND BELOW	181 [400]
OVER 10,000 LB	227 [500]

PASSENGER LOAD CGLOCATION		
CONFIGURATION	CG_{vp} [2] (mm [in])	CG_{hp} [3] (mm [in])
ALL TRANSIT	1059 [41.7]	1031 [40.6]

CHASSIS VERTICAL CG LOCATION (4) VAN			
ROOF HEIGHT	AXLE	ENGINE	CG_{vc} [5] (mm [in])
LOW	SRW	3.5L PFDI	785 [30.9]
		3.5L ECOBOOST	792 [31.2]
		BEV	701 [27.6]
	DRW	3.5L PFDI	787 [31.0]
		3.5L ECOBOOST	795 [31.3]
MED	SRW	3.5L PFDI	836 [32.9]
		3.5L ECOBOOST	843 [33.2]
		BEV	752 [29.6]
	DRW	3.5L PFDI	838 [33.0]
		3.5L ECOBOOST	846 [33.3]
HIGH	SRW	3.5L	876 [34.5]
		3.5L ECOBOOST	884 [34.8]
		BEV	792 [31.2]
	DRW	3.5L PFDI	879 [34.6]
		3.5L ECOBOOST	886 [34.9]

CHASSIS VERTICAL CG LOCATION[4] CUTAWAY / CHASSIS CAB			
WB (IN)	AXLE	ENGINE	CG_{vc} [5] (mm [in])
138	SRW	3.5L PFDI	706 [27.8]
		3.5L ECOBOOST	714 [28.1]
	DRW	3.5L PFDI	716 [28.2]
		3.5L ECOBOOST	724 [28.5]
156	SRW	3.5L PFDI	673 [26.5]
		3.5L ECOBOOST	681 [26.8]
	DRW	3.5L PFDI	683 [26.9]
		3.5L ECOBOOST	691 [27.2]
178	SRW	3.5L PFDI	663 [26.1]
		3.5L ECOBOOST	671 [26.4]
		BEV	579 [22.8]
	DRW	3.5L PFDI	673 [26.5]
		3.5L ECOBOOST	681 [26.8]

NOTES:
1. P – Passenger Load as defined in FMVSS 105
2. CG_{vp} – Vertical CG location of Passenger Load as measured from the Ground
3. CG_{hp} – Horizontal CG location of Passenger Load as measured from the Center of the Front Wheel
4. Values are calculated based on physical measurements from a sample of chassis. All values should be considered estimates, if the calculated CG values for the completed vehicle are close to limits stated in the applicable IVM, Ford recommends verification of CG by physical measurement of a completed vehicle.
5. CG_{vc} – Vertical CG location of Chassis as measured from the Ground

NOTE- [ ] DIMENSION ARE INCHES

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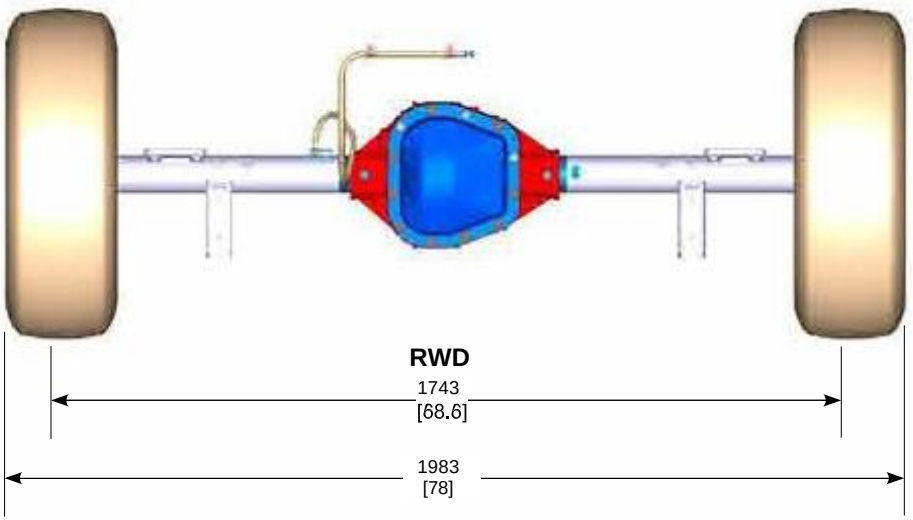
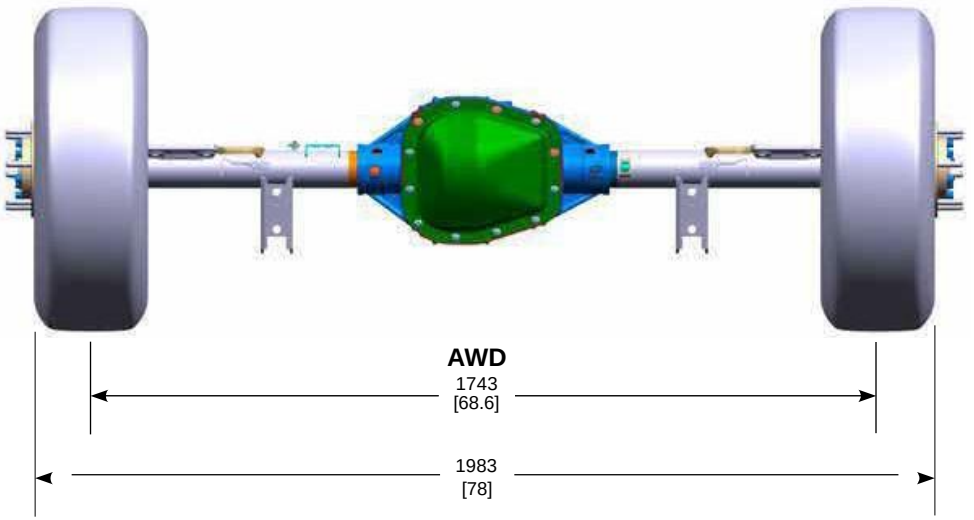
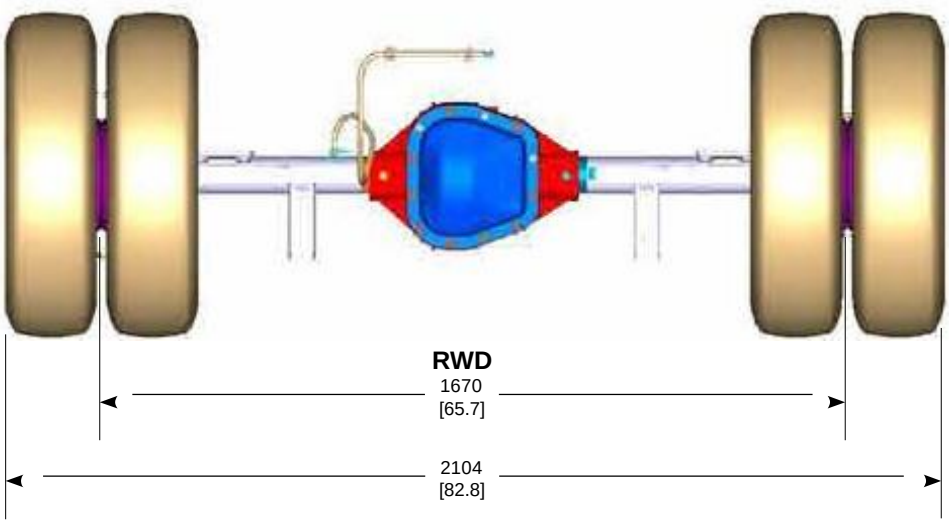
Body Builders Layout Book

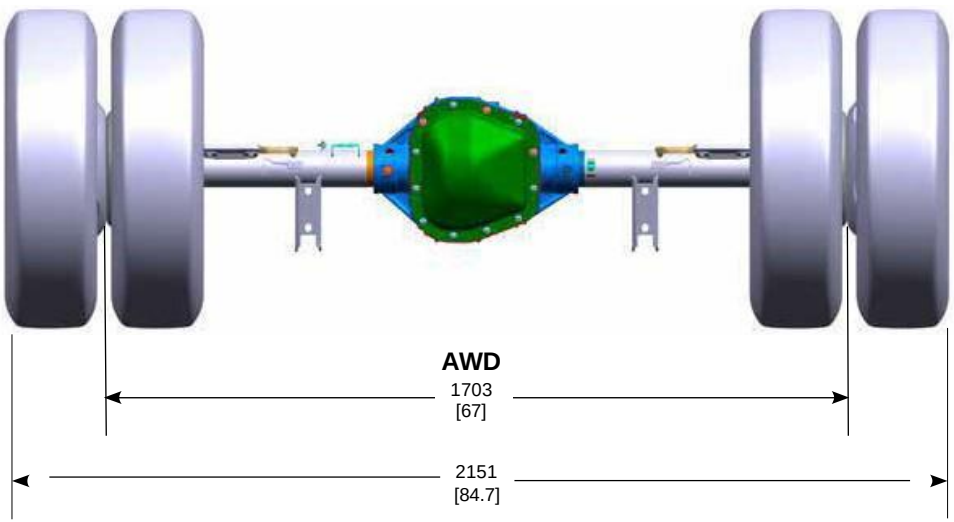
TRANSIT

DIMENSIONAL DATA: REAR AXLE TRACK DIMENSIONS (SRW & DRW)









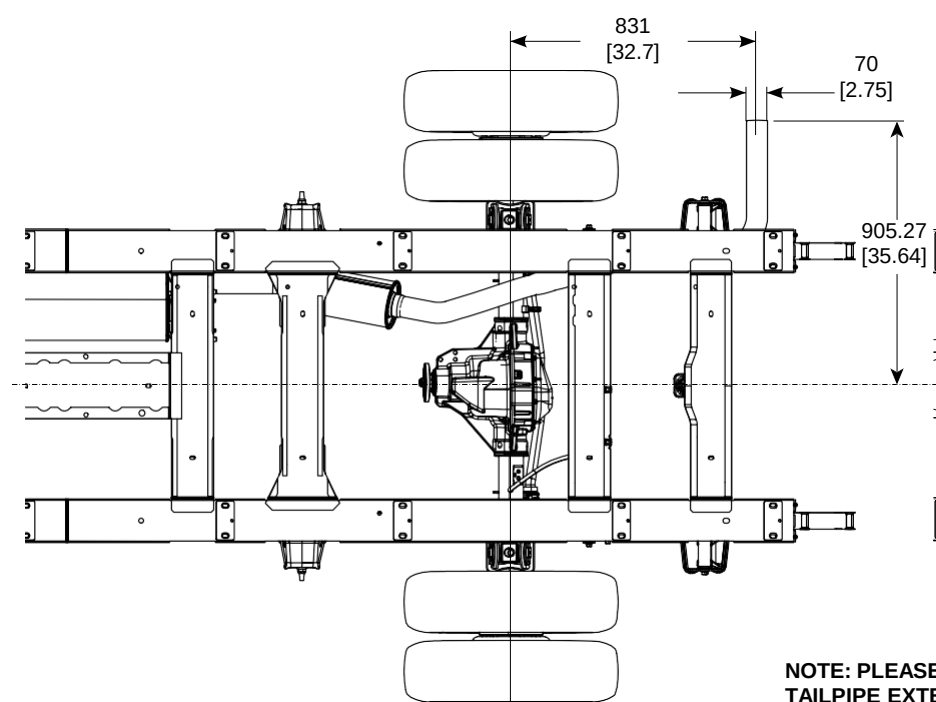
NOTE- [ ] DIMENSION ARE INCHES

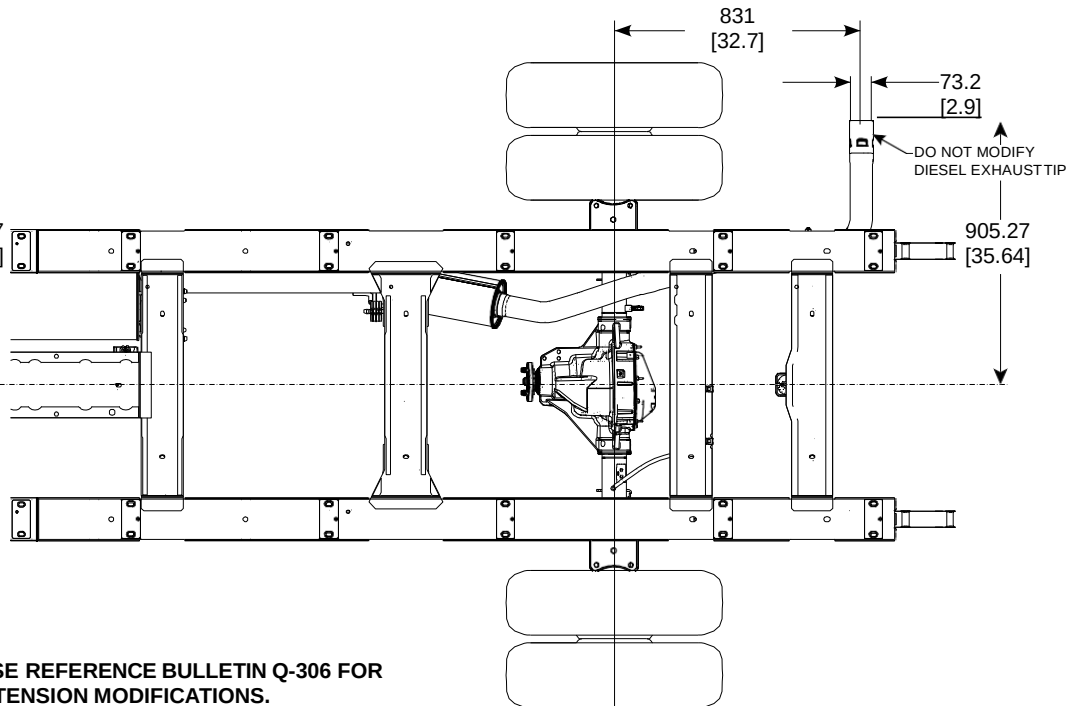
Ford PRO

Body Builders Layout Book

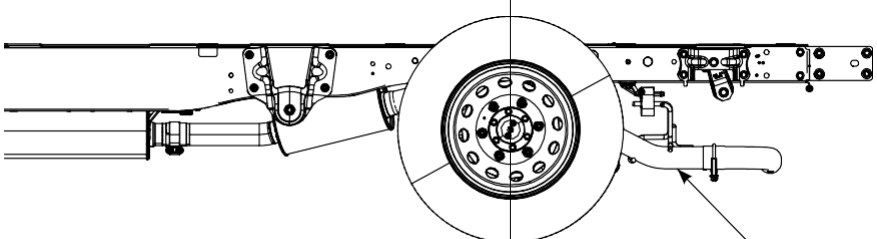
TRANSIT

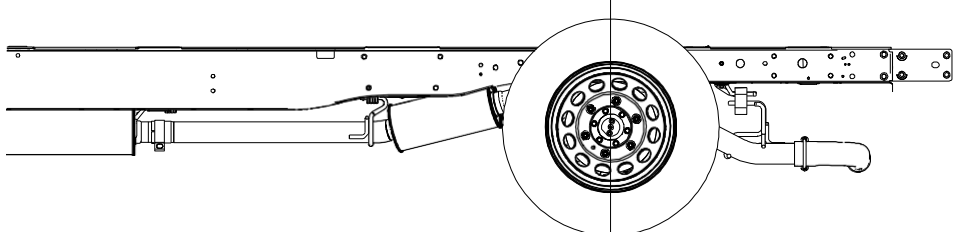
DIMENSIONAL DATA: EXHAUST EXTENSION KIT (CHASSIS CAB & CUTAWAY)





NOTE: PLEASE REFERENCE BULLETIN Q-306 FOR TAILPIPE EXTENSION MODIFICATIONS.





NOTE: SIDE EXIT EXHAUST PIPE PROVIDED WITH VEHICLE MUST BE INSTALLED BY UPFITTER

TRANSIT EXTENDED EXHAUST
GASOLINE ENGINE
ALL WB CHASSIS CAB /CUTAWAY

TRANSIT EXTENDED EXHAUST
DIESEL ENGINE
ALL WB CHASSIS CAB / CUTAWAY

NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

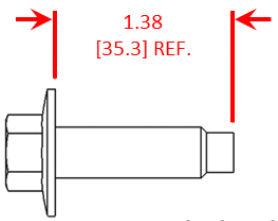
DESIGN / RECOMMENDATION: SECOND UNIT MOUNTING (GAS & BEV)

TRANSIT SECOND UNIT BODY (SUB)

Refer to the Transit Incomplete Vehicle Manual (IVM) and the Transit Body and Equipment Mounting Manual (BEMM), Body Section, 5.1.6 Chassis Cab / Cutaway at https://fordbbas.com/publications for additional SUB mounting information for both GAS and BEV Model variants.

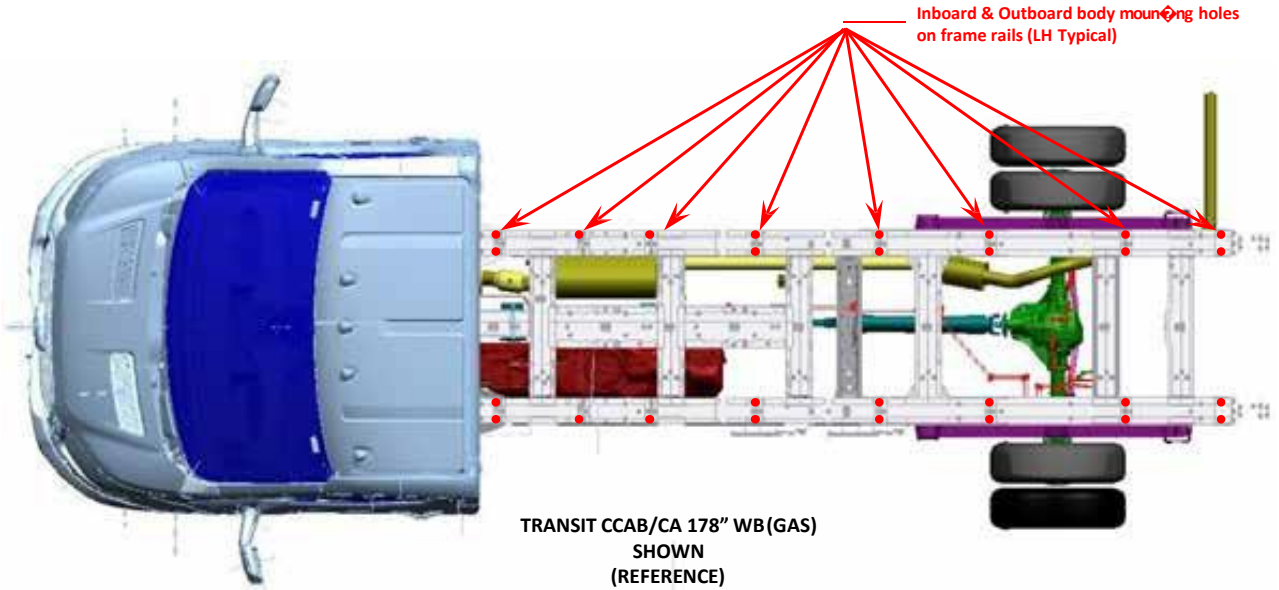
- A full-length structural body should be hard-mounted to all available inboard and outboard frame hole locations; however, fasteners are not required in 2nd and 3rd rows of LH and RH frame rail inboard holes alongside the battery, fuel tank and exhaust muffler. Ford Motor Company recommends 25 mm head-size flange M10 Grade 10.9 W520113-S442 nuts & W703776-S442 bolts, or equivalent. Reference BEMM Body Section, 5.1.6 Chassis Cab / Cutaway.

W520113-S442 Nut (REF.)

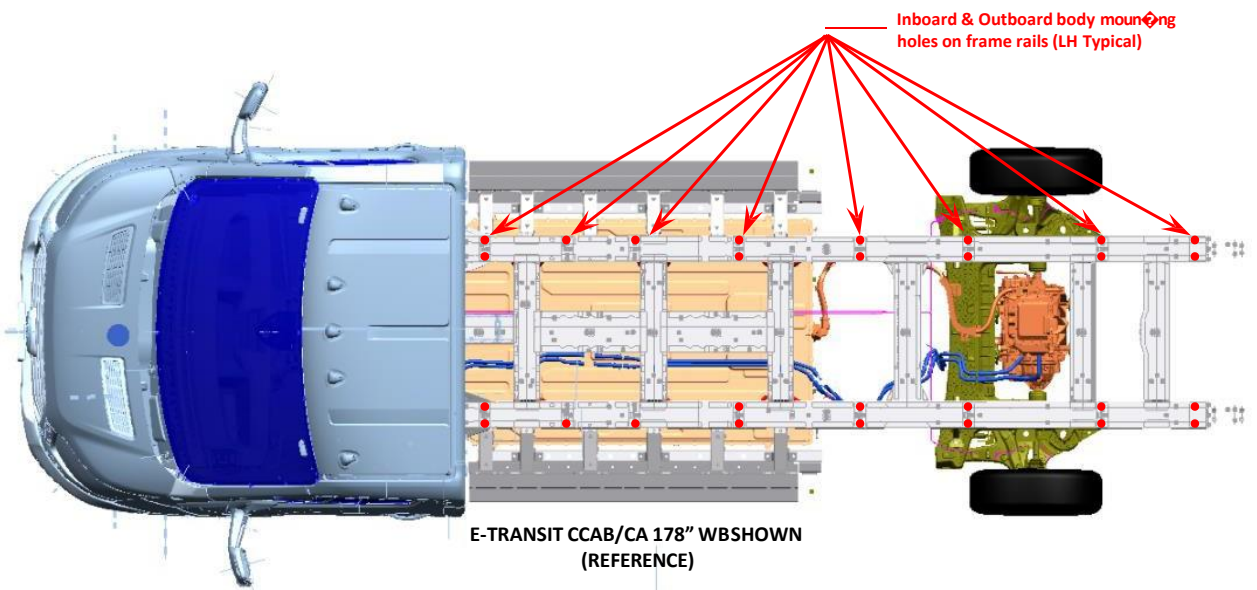


W703776-S442 Bolts (REF.)

- **DO NOT WELD** to the flanges of the side rails.
- The recommended attachment fastener for the Cutaway Back-of-Cab non-threaded nutplates is a MR8 Taptite 2000® bolt or equivalent. Reference Transit BEMM Body Section, 5.1.7 Cutaways.
- NOTE: The requirement for a Cutaway floor spacer between the cab and an attached body. Reference: BEMM Body Section, 5.1.7 Cutaway – Floor Spacer.
- **NOTE: BEV Chassis Cab vehicles with a Platform or Stake style Second Unit Body may exhibit a Low Frequency Ride Comfort Characteristics that does not meet customer expectations. When upfitting a vehicle with either of these Second Unit Bodies, Ford Motor Company recommends installation of a Tuned Mass Damper Part: NK31-110867-AA* be ordered and installed prior to delivery to end/final customer. Reference the following page for image and location.**



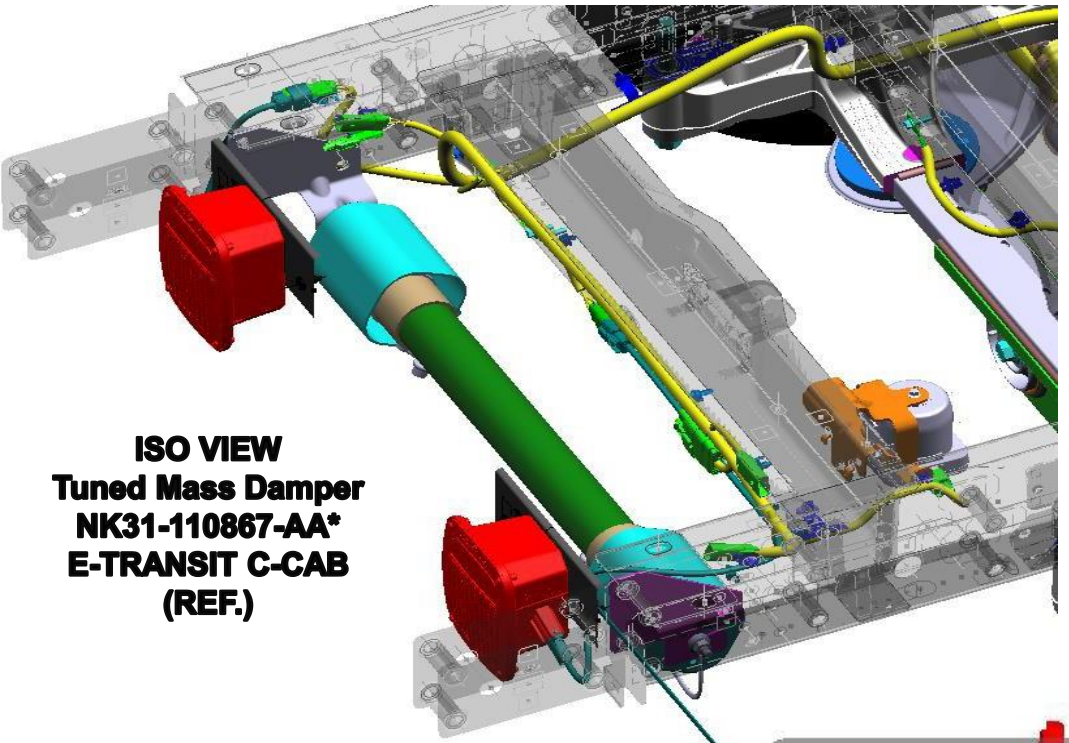
TRANSIT CCAB/CA 178" WB (GAS)
SHOWN
(REFERENCE)



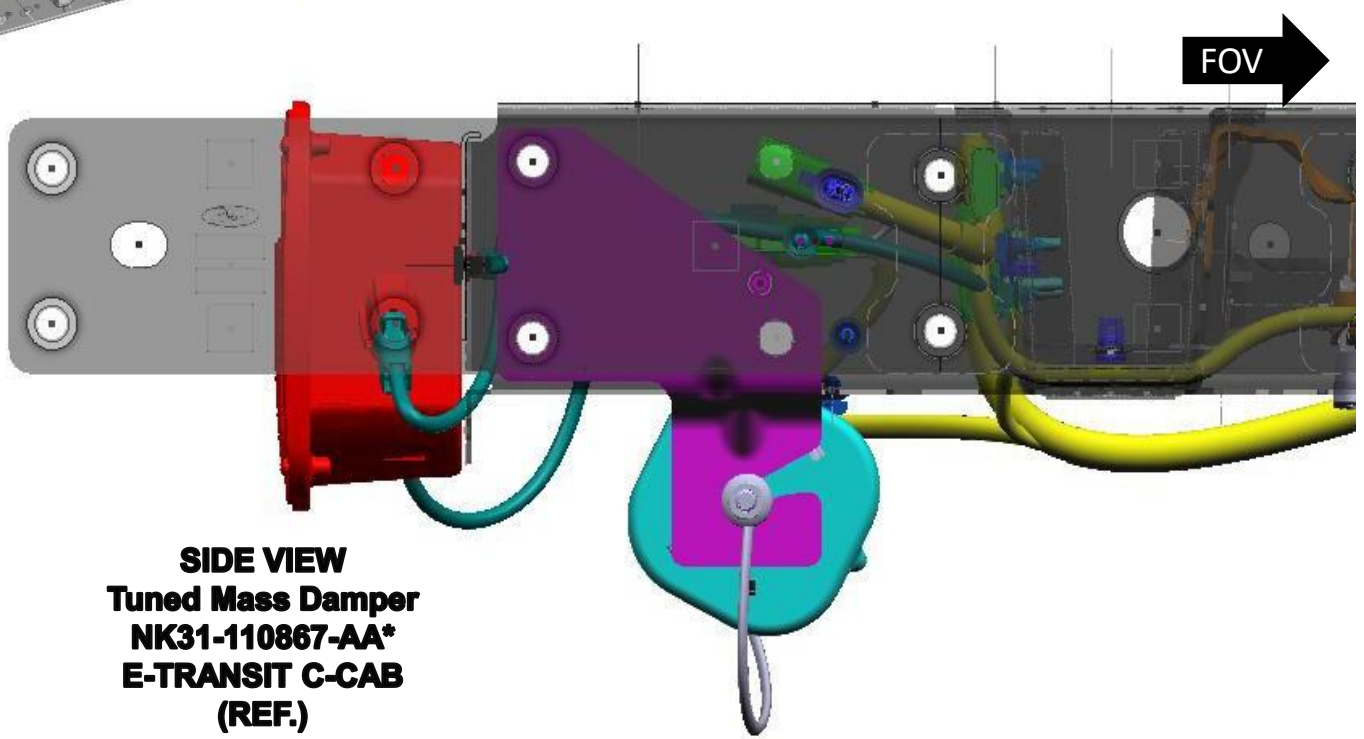
E-TRANSIT CCAB/CA 178" WBSHOWN
(REFERENCE)

TRANSIT

DESIGN / RECOMMENDATION: SECOND UNIT MOUNTING (GAS & BEV)



ISO VIEW
Tuned Mass Damper
NK31-110867-AA*
E-TRANSIT C-CAB
(REF.)



SIDE VIEW
Tuned Mass Damper
NK31-110867-AA*
E-TRANSIT C-CAB
(REF.)

TRANSIT

DESIGN / RECOMMENDATION: PRECAUTIONARY DRILL ZONES GUIDANCE (E-TRANSIT)

E-TRANSIT VAN PRECAUTIONARY DRILL ZONES

Refer to the Transit Incomplete Vehicle Manual (IVM) and the Transit Body and Equipment Mounting Manual (BEMM), Powertrain Section, for further precautionary details https://fordbbas.com/publications for GAS and Battery Electric Vehicle (BEV) Model variants.

THIS GUIDANCE ONLY APPLIES TO THE E-TRANSIT BEV.

It is **STRONGLY** recommended that E-Transit VAN CAD is obtained for upfitter use to understand vehicle component placement/location of Hi/Low-Voltage Wire harness routing, coolant line wiring, hydraulic brake line routing, rear drive unit placement, etc. CAD can be obtained from Ford Body Builder Advisory Service by submitting a helpdesk ticket, https://fordbbashelpdesk.kayako.com/Tickets/Submit

Take precautions when undertaking drilling, or any other operation, aft of B-Pillar in order to prevent damage to any components under the Van floor.

HV grounding points in the vehicle are not to be touched.

When adding holes/fasteners to the floor of the vehicle to secure upfits, consideration must be given to all components below the floor.

- It is strongly recommended that drill-depth stop be used.
- Drill stop depth shall not exceed 1.0 [25.4] MAXIMUM DEPTH
- Fasteners (including PlusNut® or equivalent) extending below the floor of the vehicle shall not exceed 1.0 [25.4] MAXIMUM DEPTH (Figure A)
- Fasteners (and/or alternative fastening method) extending below the floor of the vehicle shall have 2.0 [50.8] MINIMUM CLEARANCE to any surrounding Hi/Low-Voltage wiring and/or coolant line routing and/or hydraulic brake line routing to prevent any damage/chaffing. (Figure B)

NOTE:

- Re-paint metal edges after cutting or drilling. All metal edges must comply with exterior and interior protection legislation.
- All fixings through the floor, sides or roof must be sealed. (Refer BEMM sections 5.1.1 Body Structures and 5.1.3 Corrosion Prevention)

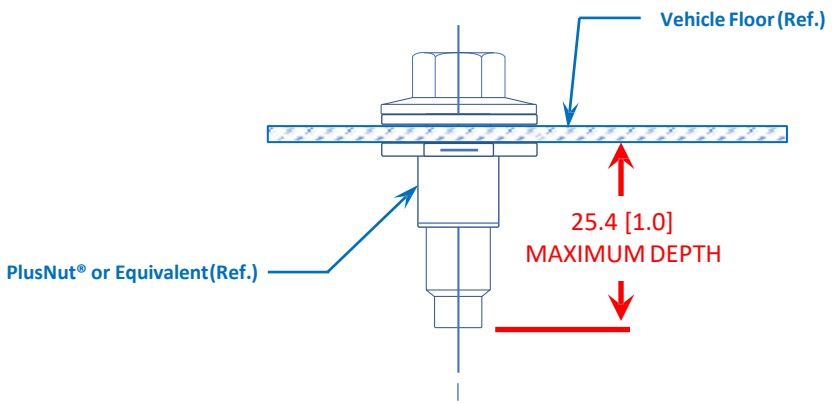


Figure A

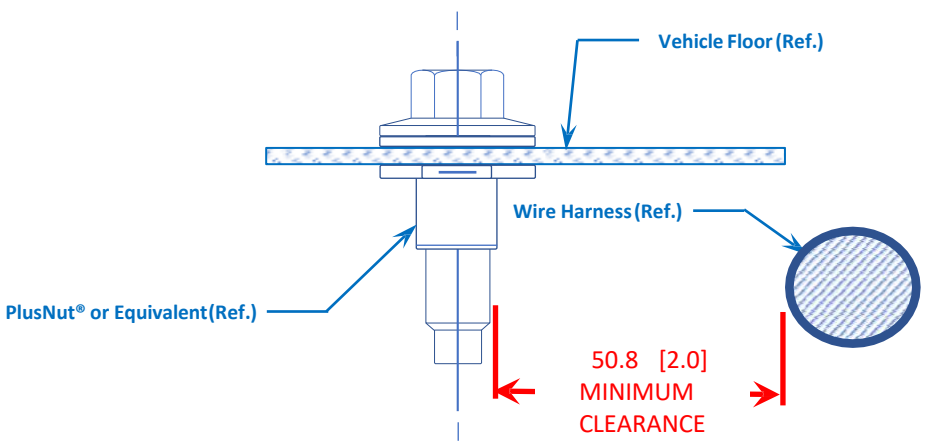


Figure B

TRANSIT

DESIGN / RECOMMENDATION: HIGH VOLTAGE BATTERY VEHICLE VENTING (E-TRANSIT)

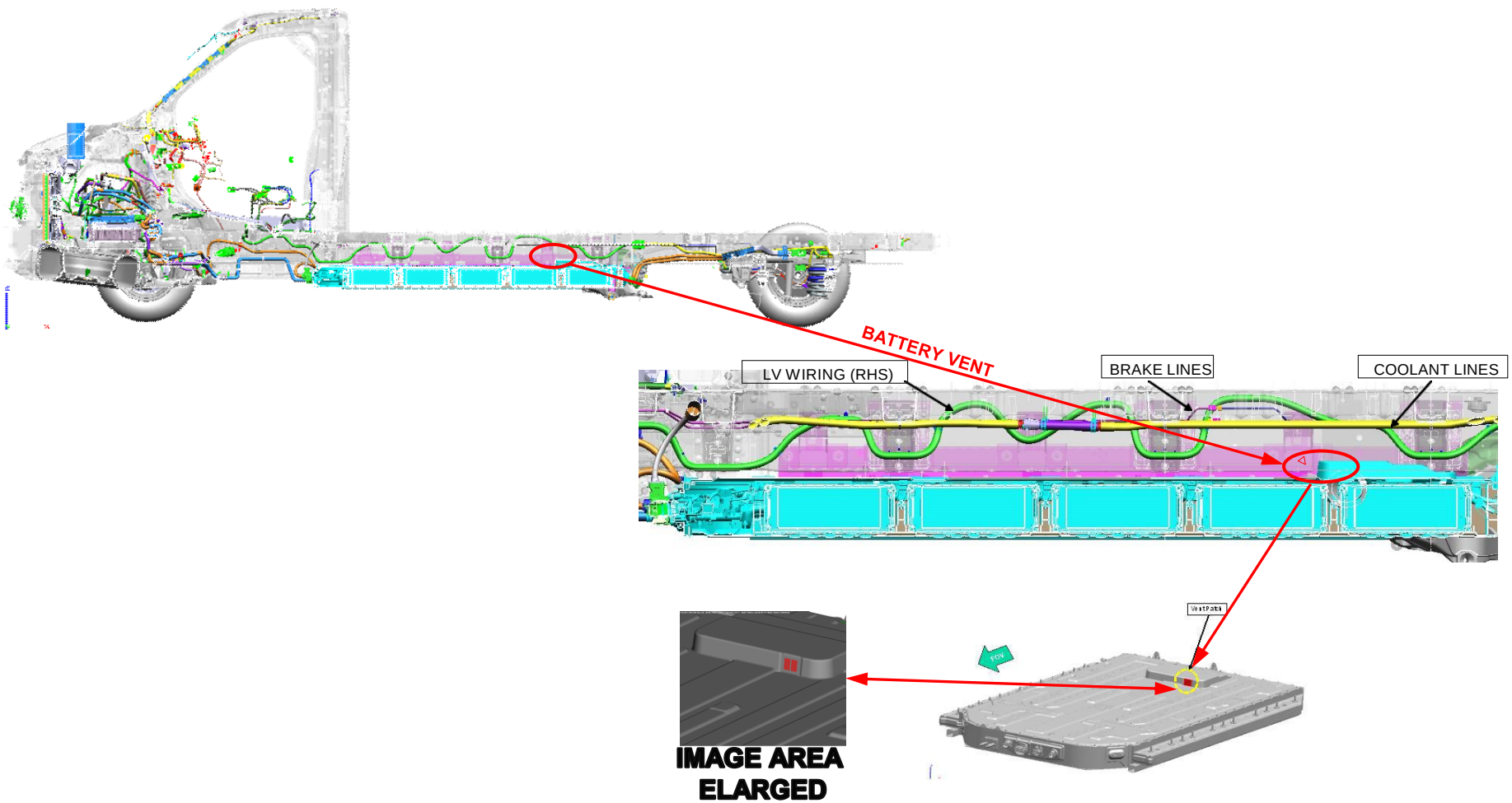
HIGH VOLTAGE BATTERY VEHICLE VENTING

If the HV Battery is equipped with pressure equalization patches, pressure relief ports, and/or exhaust vent ducts, no additional components nor obstructions (beyond any installed by Ford) shall be located in the same environment as the battery (e.g., underbody), and within 150 mm of these features. Additionally, no components which may contain combustible liquids or gasses at any time shall be added by the upfitter within 300 mm of these features.

There shall be no modifications or installed components which confine the air space near the outside of the HV Battery or obstruct the free flow of air about the battery (beyond any installed by Ford).

Any cut outs or openings created between the occupant space and the vehicle underbody shall be sealed such that air is not free to pass from under the vehicle into the occupant space.

If any primary ingress/egress paths for occupant spaces are located above or rearward of the rear axle(s), a metallic shielding shall be added to obstruct any air flow from the battery towards those ingress/egress paths and redirect that air flow towards a side/rear area that is not a primary ingress/egress path.



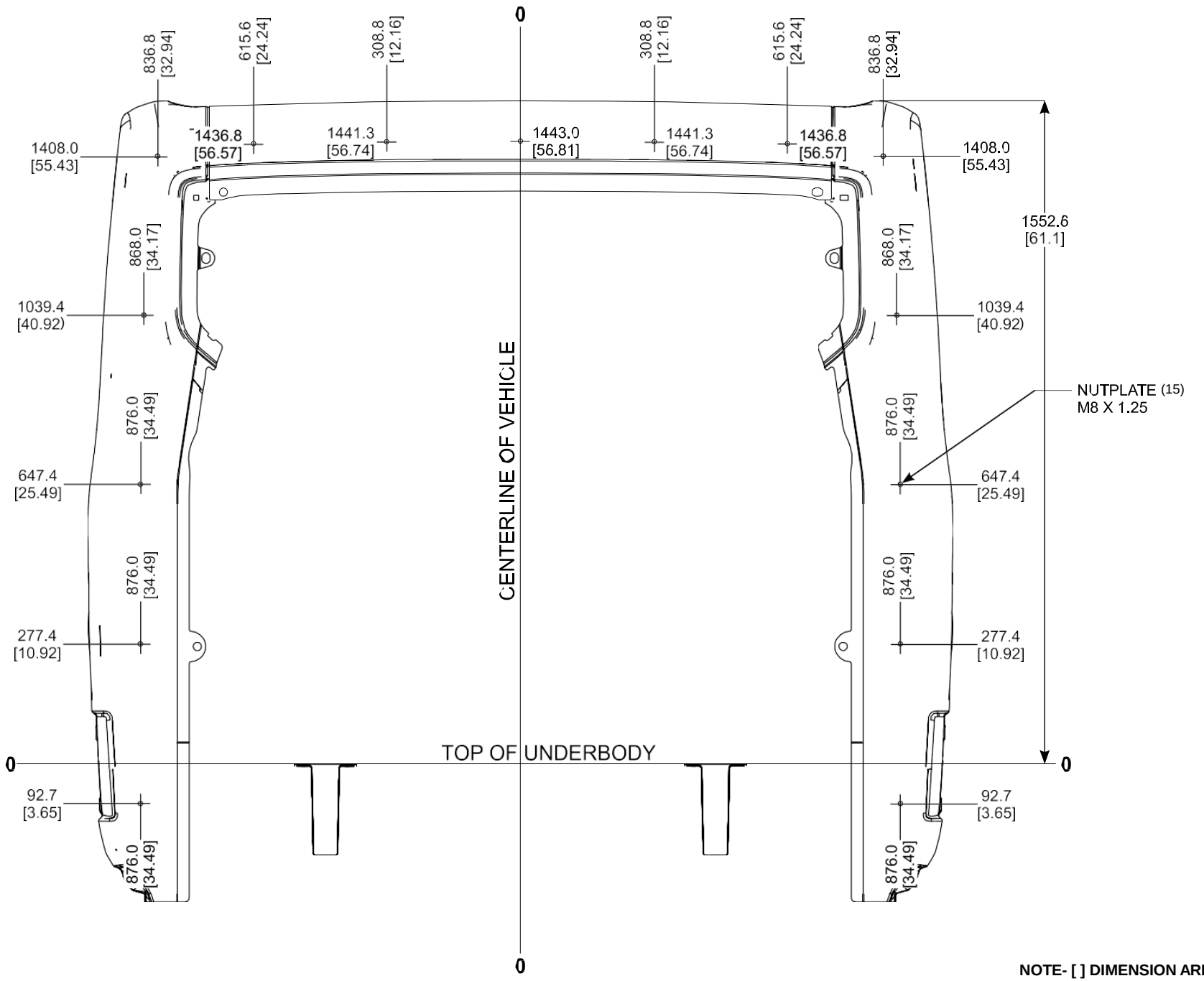
NOTE- [ ] DIMENSION ARE INCHES

Ford PRO

Body Builders Layout Book

TRANSIT

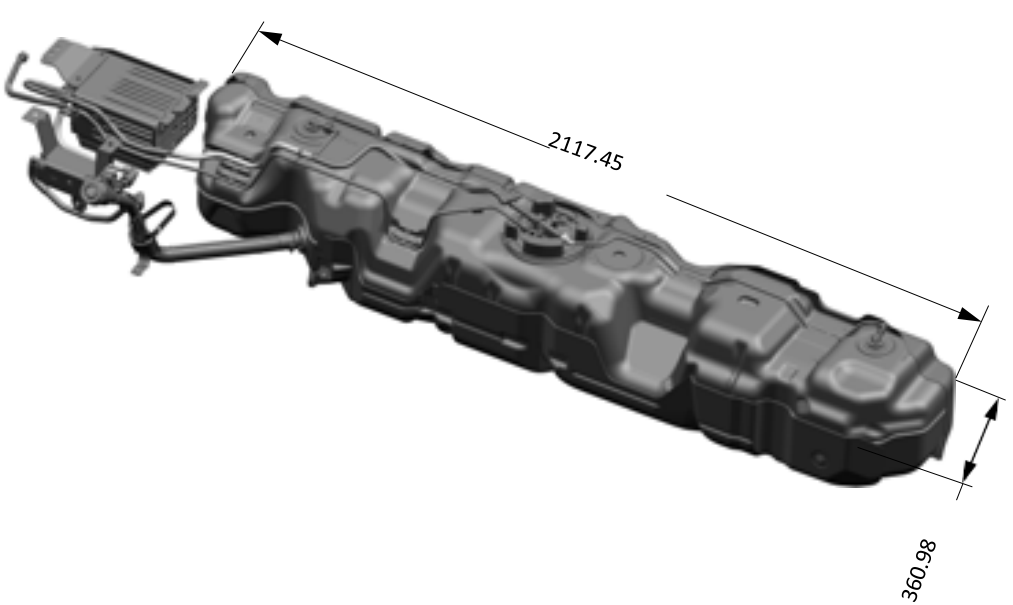
DESIGN / RECOMMENDATIONS: BACK OF CAB MOUNTING HOLES (CUTAWAY)



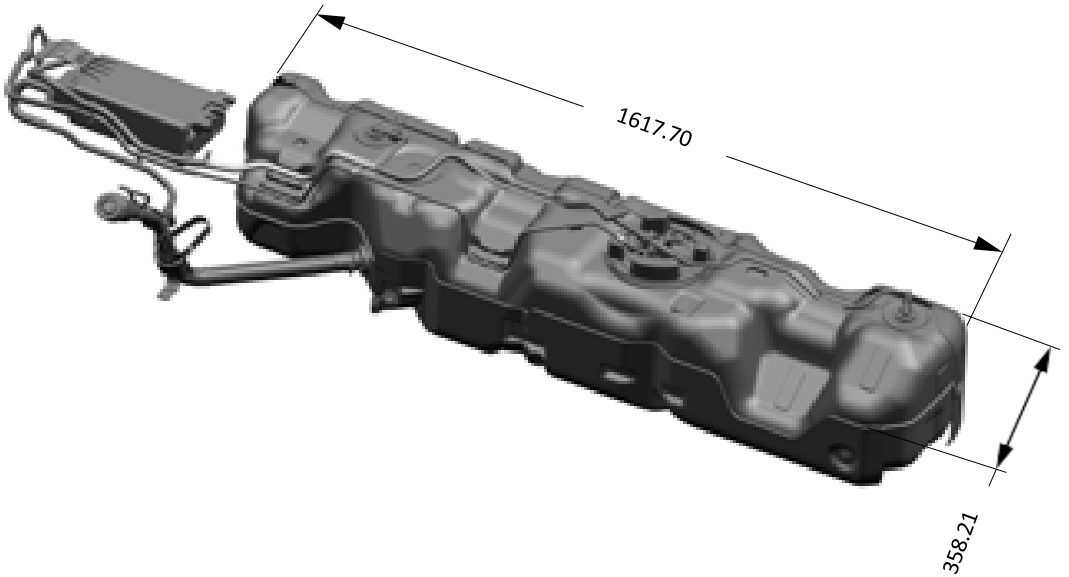
NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

DESIGN / RECOMMENDATIONS: FUEL TANK (ALL MODELS)



EXTENDED RANGE SINGLE TANK

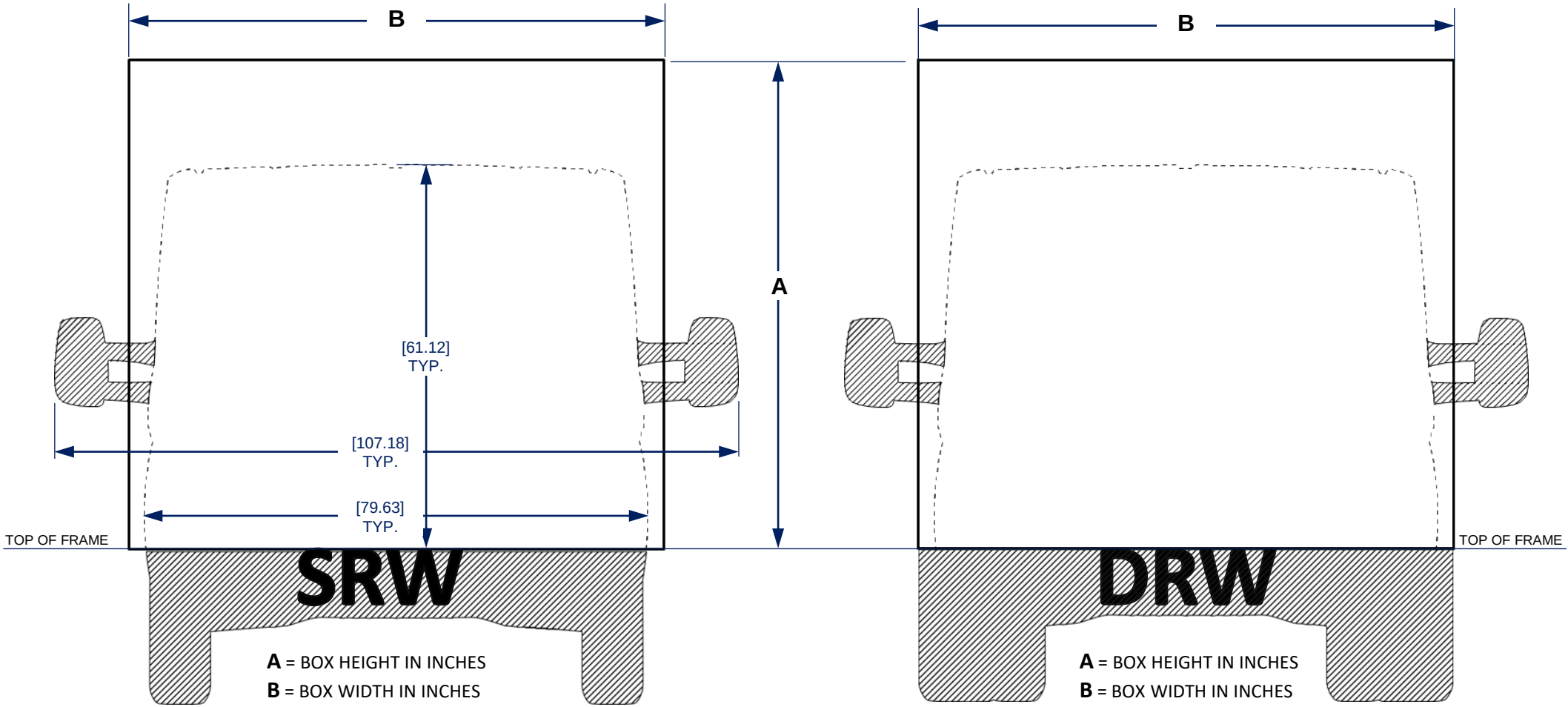


SINGLE TANK

NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

DESIGN INFO / RECOMMENDATION: FRONTAL AREA RESTRICTIONS (CHASSIS CAB & CUTAWAY)



TO FIND FRONT SURFACE AREA IN SQ. INCHES: (A X B) + 1429.7 =

TO FIND FRONT SURFACE AREA IN SQ. FEET : ((A X B)) / 144) + 9.93 =

BELOW FRAME SHADED AREA = 728601 / (25.4 X 25.4) = 1129.3338 SQ. IN. or 1129.3338 / (12 X 12) = 7.8426 SQ. FT

MIRROR SHADED AREA = (96882.4 X 2) / (25.4 X 25.4) = 300.3360 SQ. IN. or 300.3360 / (12 X 12) = 2.0857 SQ. FT.

TOTAL SHADED AREA = 922365.8 / (25.4 X 25.4) = 1429.6698 SQ. IN. or 1429.6698 / (12 X 12) = 9.9282 SQ. FT.

TO FIND FRONT SURFACE AREA IN SQ. INCHES: (A X B) + 1715.6 =

TO FIND FRONT SURFACE AREA IN SQ. FEET : ((A X B)) / 144) + 11.91 =

BELOW FRAME SHADED AREA = 913123.8 / (25.4 X 25.4) = 1415.3447 SQ. IN. or 1415.3447 / (12 X 12) = 9.8287 SQ. FT

MIRROR SHADED AREA = (96882.4 X 2) / (25.4 X 25.4) = 300.3360 SQ. IN. or 300.3360 / (12 X 12) = 2.0857 SQ. FT.

TOTAL SHADED AREA = 1106888.6 / (25.4 X 25.4) = 1715.6808 SQ. IN. or 1715.6808 / (12 X 12) = 11.9144 SQ. FT.

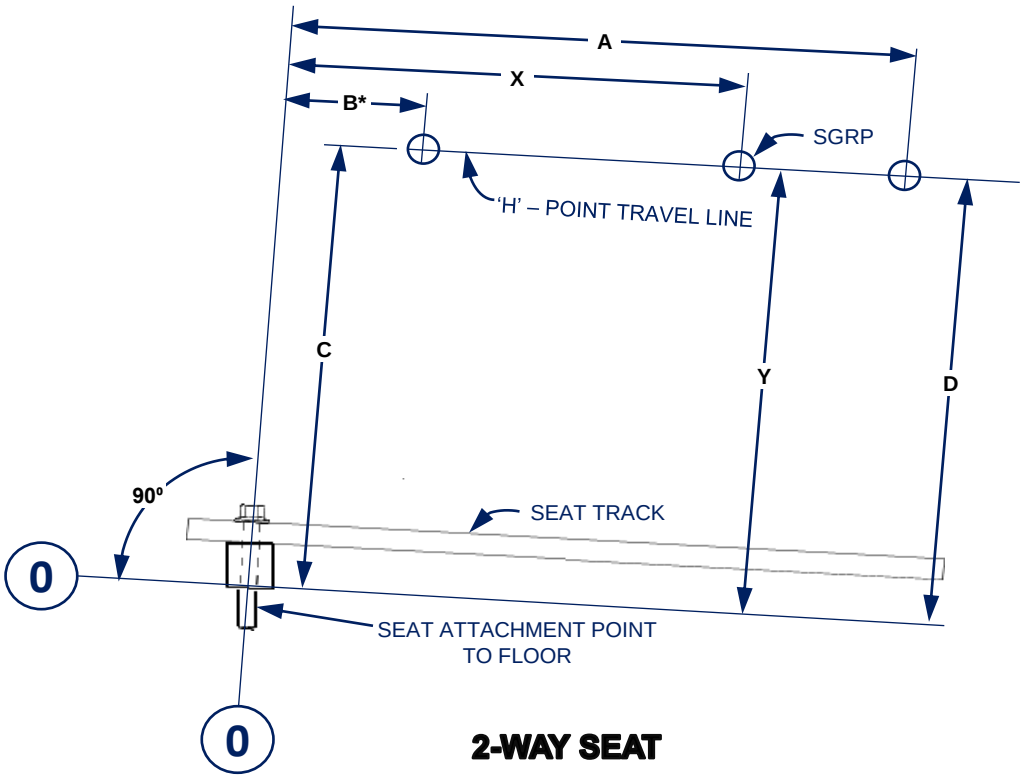
NOTE- [ ] DIMENSION ARE INCHES

Ford PRO

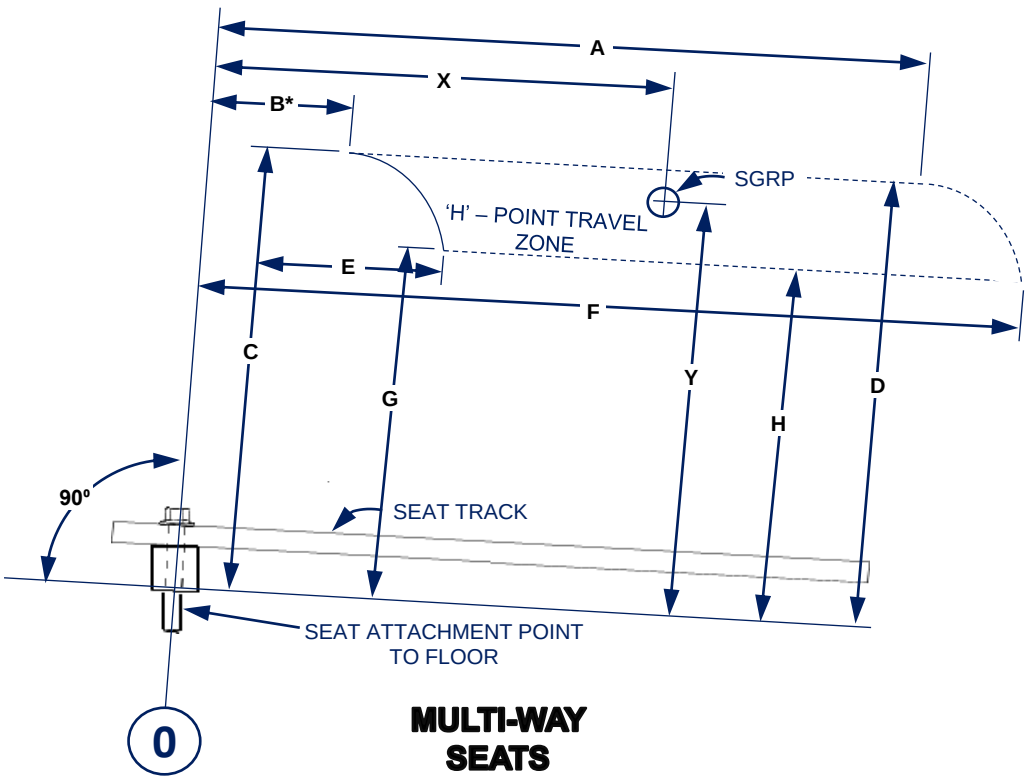
Body Builders Layout Book

TRANSIT

DESIGN/RECOMMENDATION: SEAT H-POINT (ALL MODELS)



2-WAY SEAT



MULTI-WAY SEATS

FOV

SEAT TRAVEL DATA										
	SEAT DIMENSIONS								SgRP Location	
SEAT MODEL	A	B	C	D	E	F	G	H	X	Y
2-WAY SEAT	302 [11.9]	54 [2.1]	449 [17.7]	449 [17.7]	0 [0]	0 [0]	0 [0]	0 [0]	261 [10.3]	449 [17.7]
4-WAY SWIVEL	301 [11.9]	53 [2.1]	476 [18.7]	476 [18.7]	45 [1.8]	294 [11.6]	446 [17.6]	446 [17.6]	261 [10.3]	449 [17.7]
10-WAY SEAT	293 [11.5]	44 [1.7]	479 [18.9]	479 [18.9]	35 [1.4]	284 [11.2]	400 [15.7]	400 [15.7]	261 [10.3]	449 [17.7]
SEAT TRACK ANGLE TO TOP OF FRAME = 2.4										

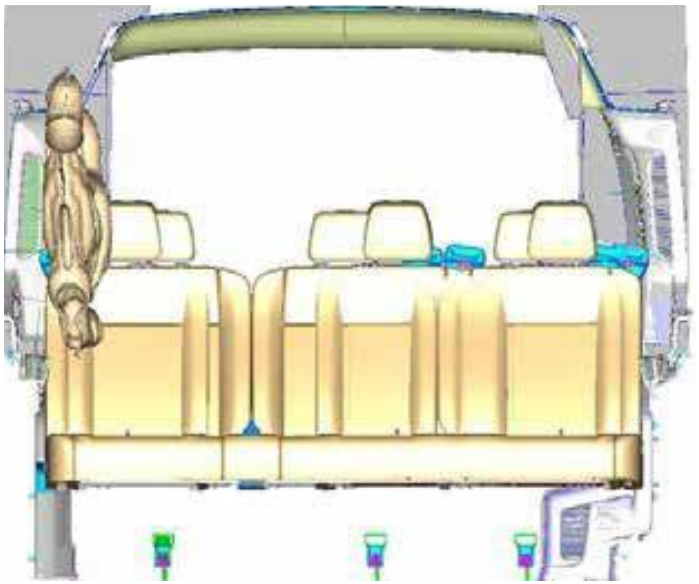
NOTE- [ ] DIMENSION ARE INCHES

TRANSIT

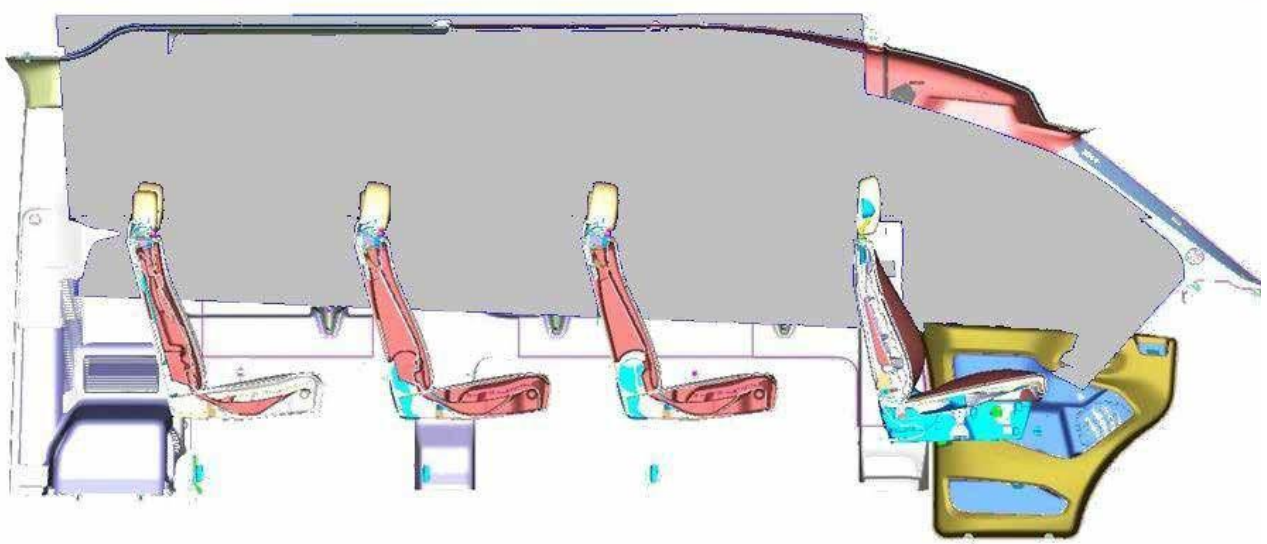
DESIGN / RECOMMENDATION: AIRBAG OCCUPANT PROTECTION ZONES (TYPICAL)

TRANSIT OCCUPANT PROTECTION ZONE

DO NOT INSTALL ADDITIONAL COMPONENTS IN THE SHADED AREAS, NOR ALTER OR MODIFY THESE AREAS



TRANSIT OCCUPANT PROTECTION ZONE



TRANSIT OCCUPANT PROTECTION ZONE (TYP.)

TRANSIT

DESIGN / RECOMMENDATION: AFTERMARKET PARTITIONS/BULKHEADS CONSIDERATIONS

AFTERMARKET PARTITIONS/BULKHEADS CONSIDERATIONS

- **Side curtain airbags are standard on Transit cargo vans starting 2016 Model Year. Upfitters installing Aftermarket Partitions / Bulkheads must ensure that installations do not interfere with side curtain airbag deployment.**

- **Medium and High Roof Recommendations:**
  Partitions or Bulkheads installed in Transit Vans must not interfere with airbag deployment zones. CAD Data (Figure 1) of the Medium and High roof Airbag keep- out Zones is available upon request Partition / Bulkhead should be positioned rearward of the prescribed keep-out zone. Additionally, The RH / LH foam blocks cannot be removed or modified. To prevent damage to the deploying airbag, panel closeout around foam blocks should be a soft edge and the forward attaching face of the partition / bulkhead should have no exposed protruding fasteners or sharp edges.

- **Low Roof Recommendations:**
  Partitions and Bulkheads need to positioned at or rearward of the front headliner / B-pillar trim surface while maintaining existing headliner and b-pillar surface. Bulkhead cannot attach directly to the headliner to ensure proper airbag deployment. (See Figures 2 and 3) Additionally, The RH / LH foam blocks cannot be removed or modified. To prevent damage to the deploying airbag, panel closeout around foam blocks should be a soft edge and the forward attaching face of the partition/ bulkhead should have no exposed protruding fasteners or sharp edges.

- **Seat Belt Retractor Damage:**
  When fastening any aftermarket equipment to the B-Pillar (such as a bulkhead or partition), the modifier must ensure that drilling operations and/or fasteners do not damage the seatbelt retractor. Damage to the seat belt retractor caused by a vehicle modifier is not a warrantable charge. See Figure 4

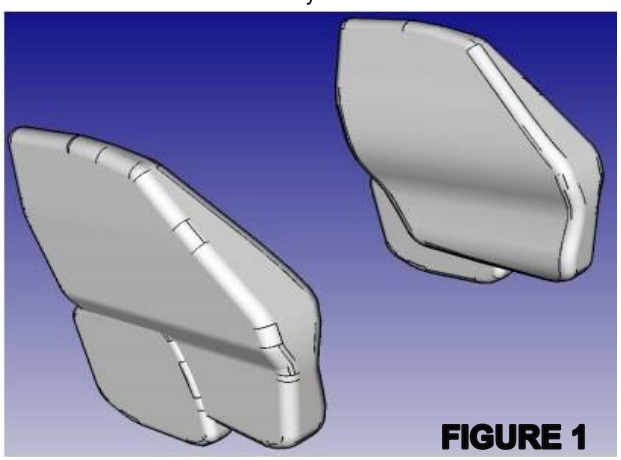


FIGURE 1

AIRBAG KEEP-OUT ZONES (MEDIUM AND HIGH ROOF)

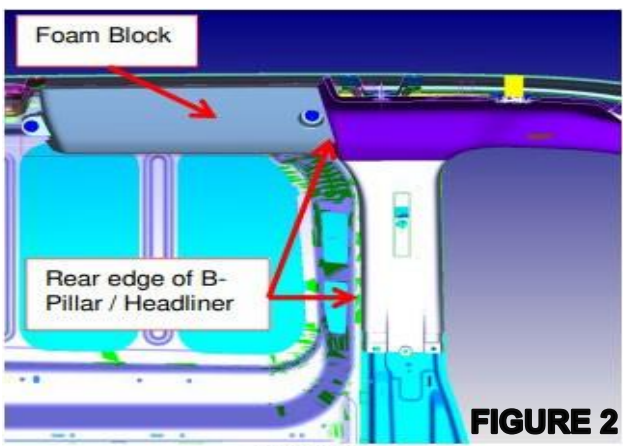


FIGURE 2

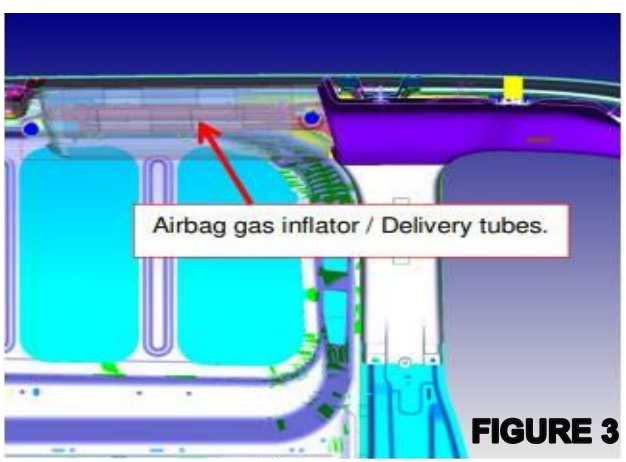


FIGURE 3

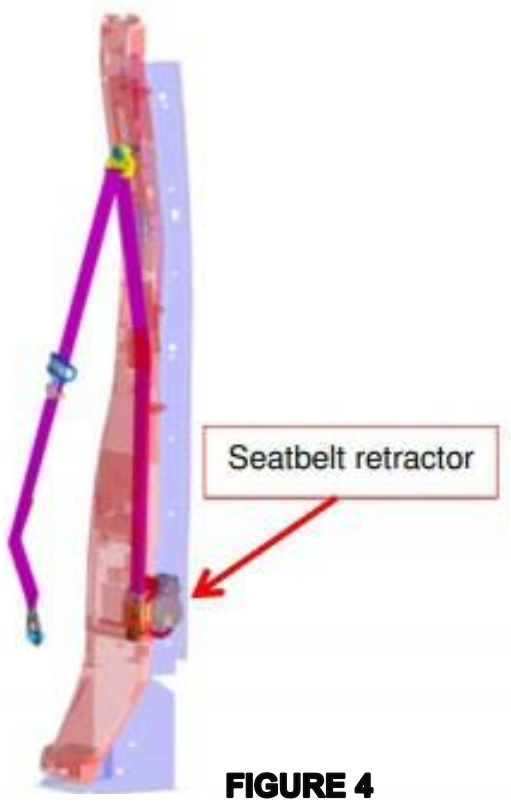


FIGURE 4

SEAT BELT RETRACTOR LOCATION (REF. LH SIDE)

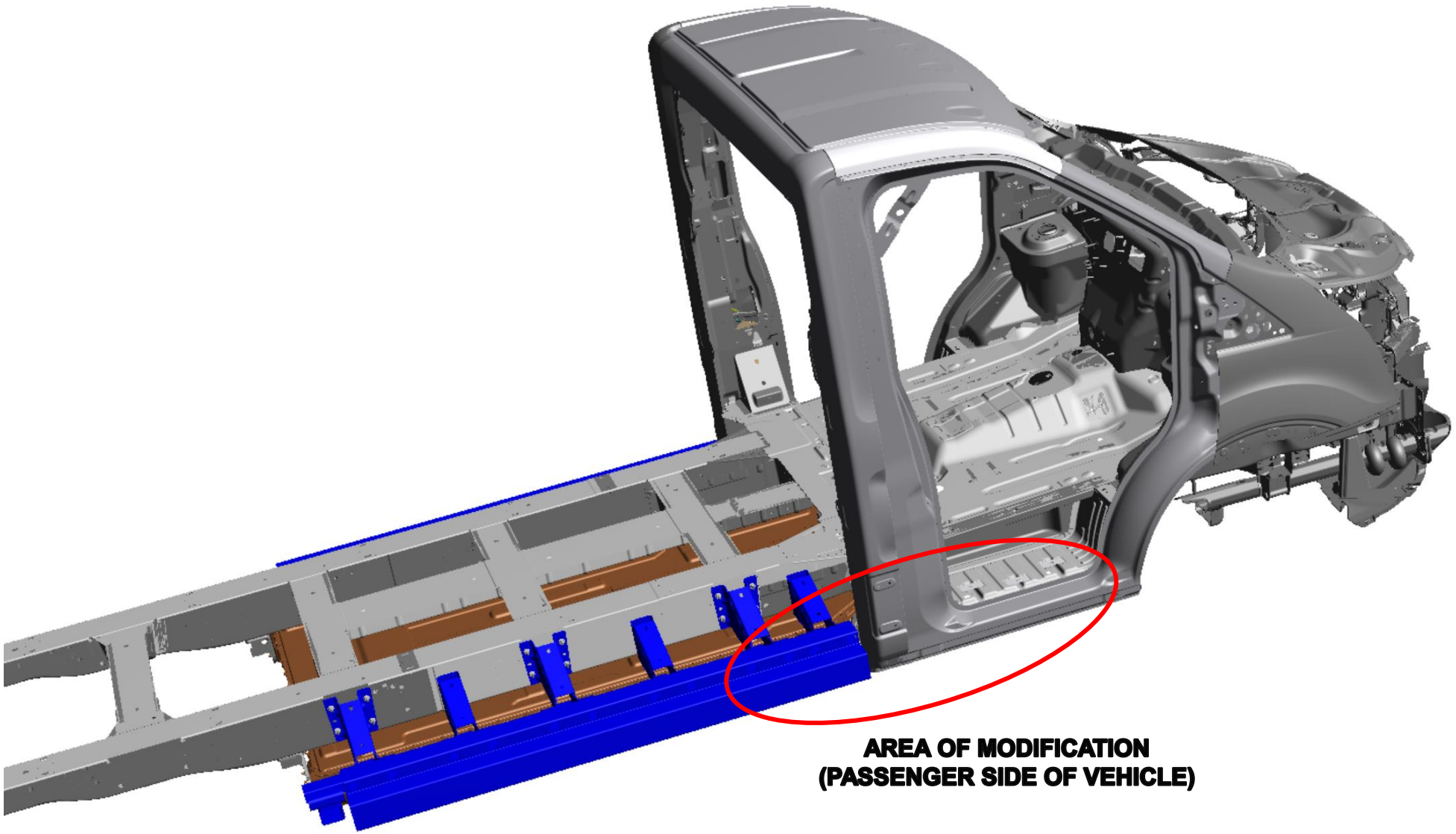
TRANSIT

DESIGN / RECOMMENDATION: BUS STEP INCORPORATION (CHASSIS CAB & CUTAWAY - 3P BATTERY ONLY)

The FMVSS 305 Statement of Conformity in the Transit Incomplete Vehicle Manual (IVM) allows for the removal of some existing structure and the addition of “equivalent” structure. These modifications are needed to accommodate the addition of steps for bus applications (or similar) on E-Transit chassis cabs and cutaways with 3P Battery ONLY. The following guidance must be followed precisely and completely to satisfy the requirements of FMVSS 305.

The Guidance Consists Of 3 Main Components:

1. Modification of HV Battery Protective Structures
2. Modification of Body Sheet Metal Structure
3. Addition of “Equivalent” Replacement Structure

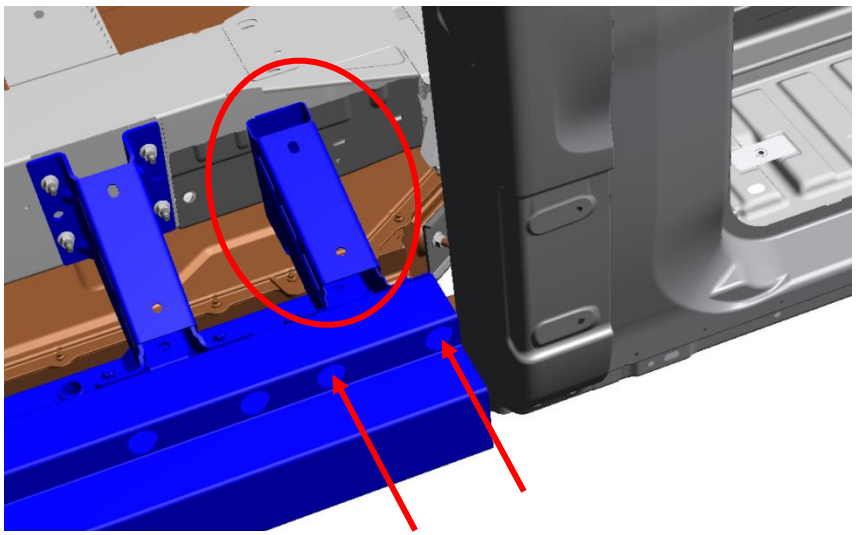


TRANSIT

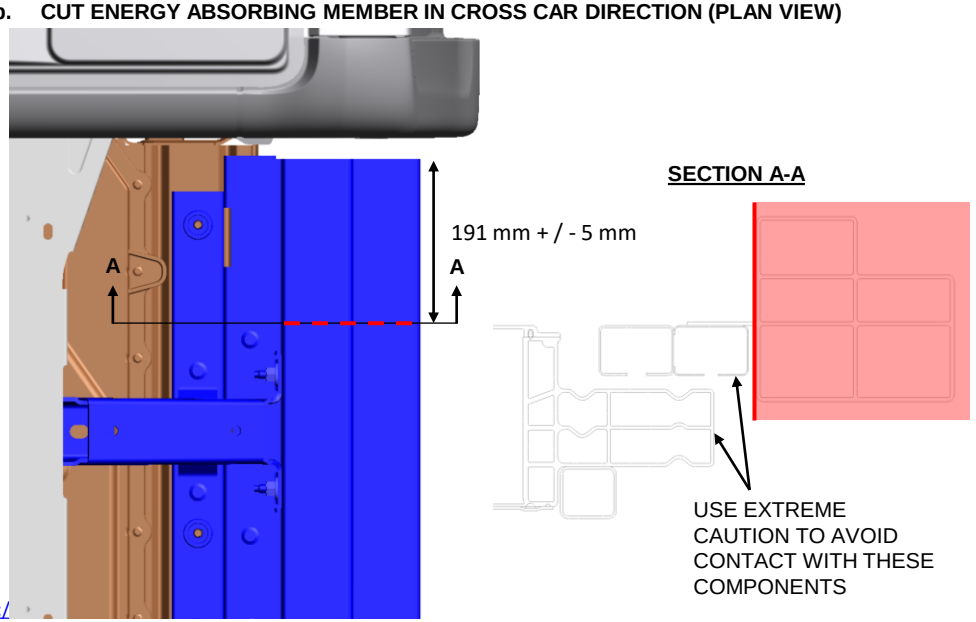
DESIGN / RECOMMENDATION: BUS STEP INCORPORATION (CHASSIS CAB & CUTAWAY - 3P BATTERY ONLY)

1. MODIFICATION OF HV BATTERY PROTECTIVE STRUCTURES

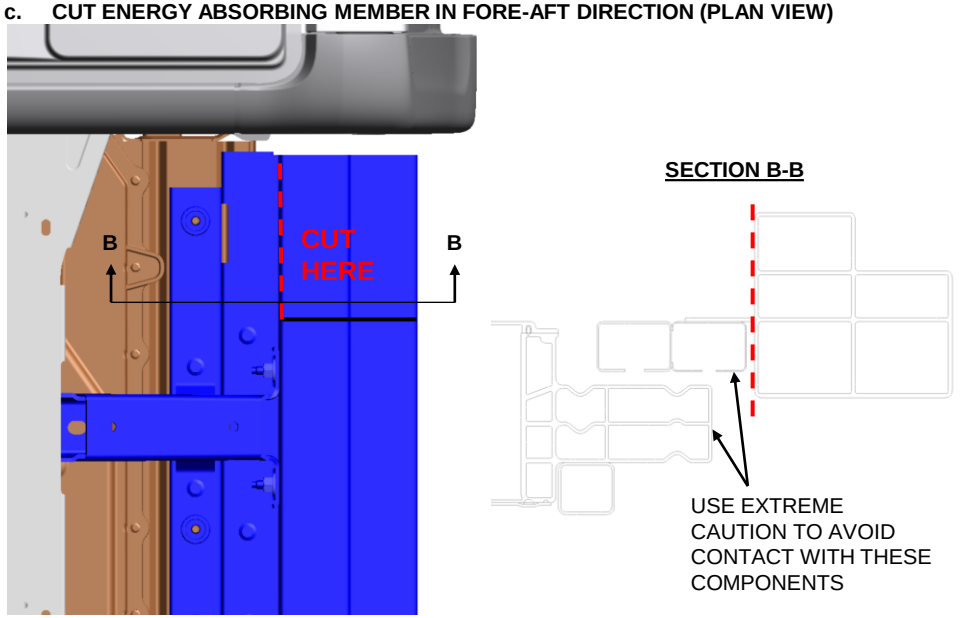
a. Remove forward most outrigger by removing two screws



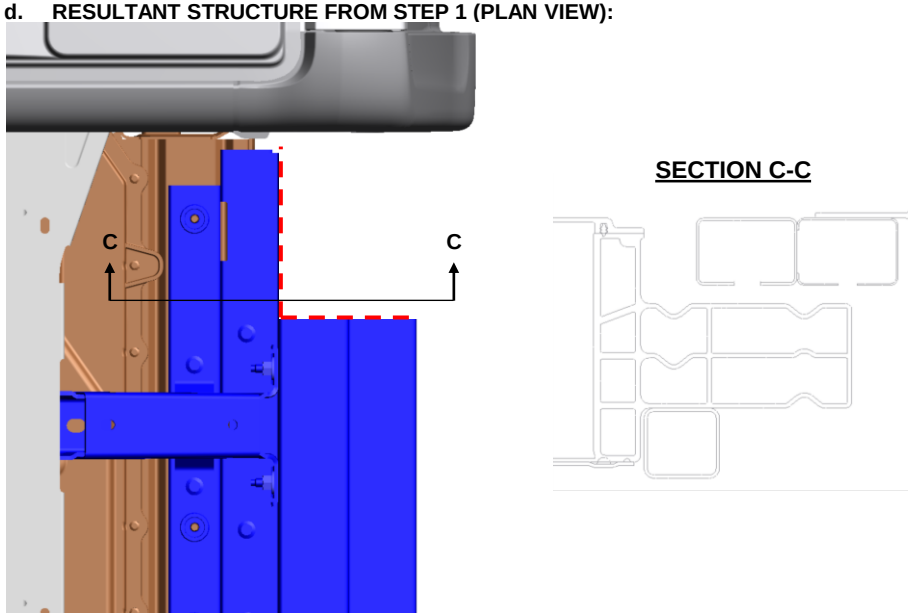
b. CUT ENERGY ABSORBING MEMBER IN CROSS CAR DIRECTION (PLAN VIEW)



c. CUT ENERGY ABSORBING MEMBER IN FORE-AFT DIRECTION (PLAN VIEW)



d. RESULTANT STRUCTURE FROM STEP 1 (PLAN VIEW):

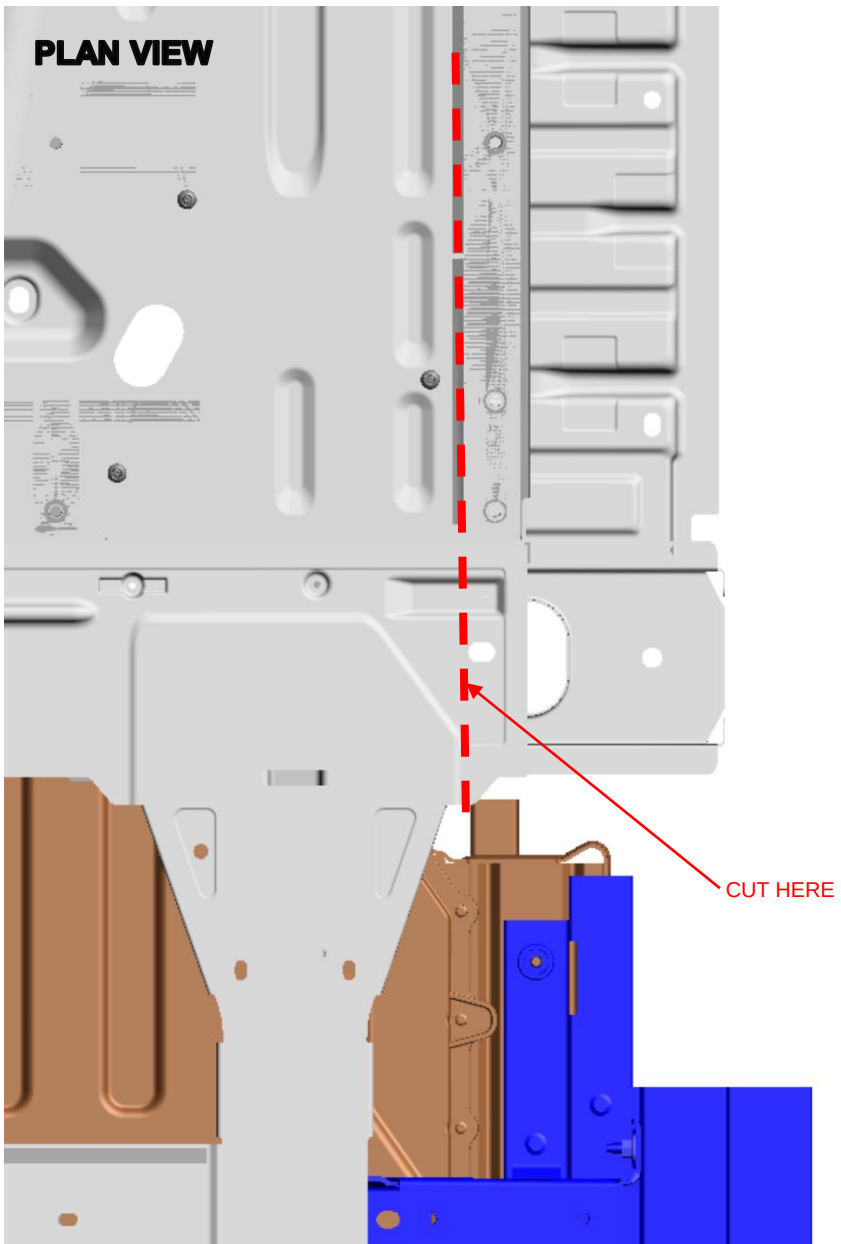


TRANSIT

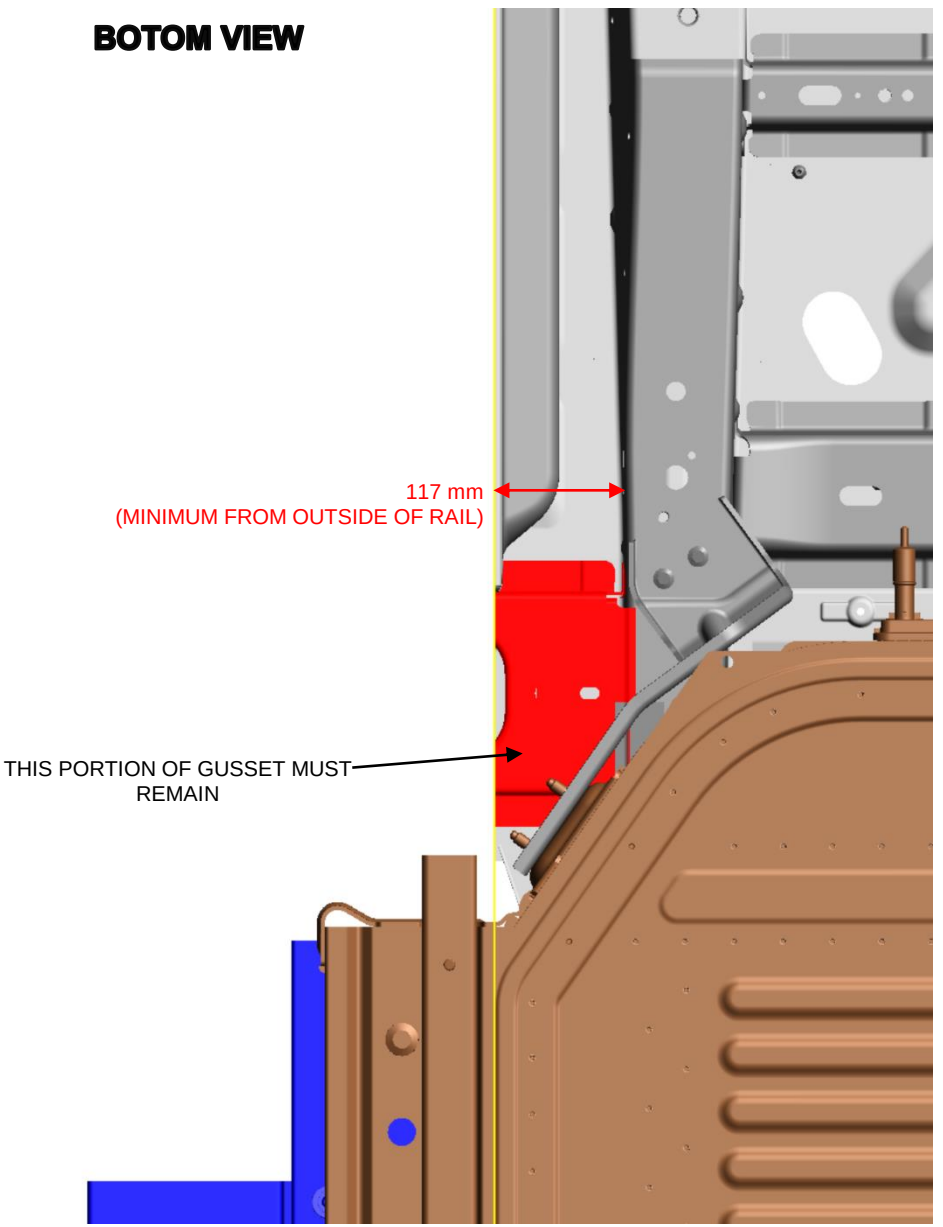
DESIGN / RECOMMENDATION: BUS STEP INCORPORATION (CHASSIS CAB & CUTAWAY - 3P BATTERY ONLY)

2. MODIFICATION OF BODY SHEET METAL STRUCTURE

a. Cut through floor and floor structure to remove B-pillar and part of step (Plan View - upper B-pillar and roof not shown for clarity)



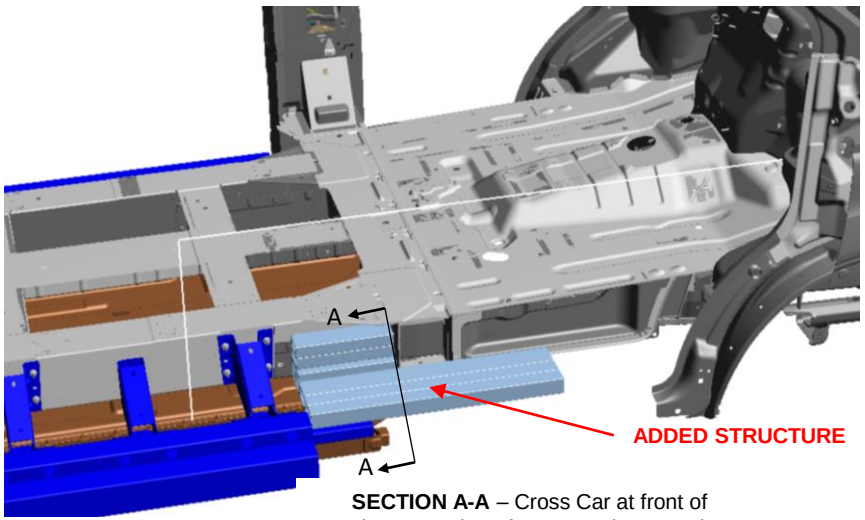
b. CRITICAL DIMENSION FOR STEP 2 (BOTTOM VIEW – RESULT SHOWN)



TRANSIT

DESIGN / RECOMMENDATION: BUS STEP INCORPORATION (CHASSIS CAB & CUTAWAY - 3P BATTERY ONLY)

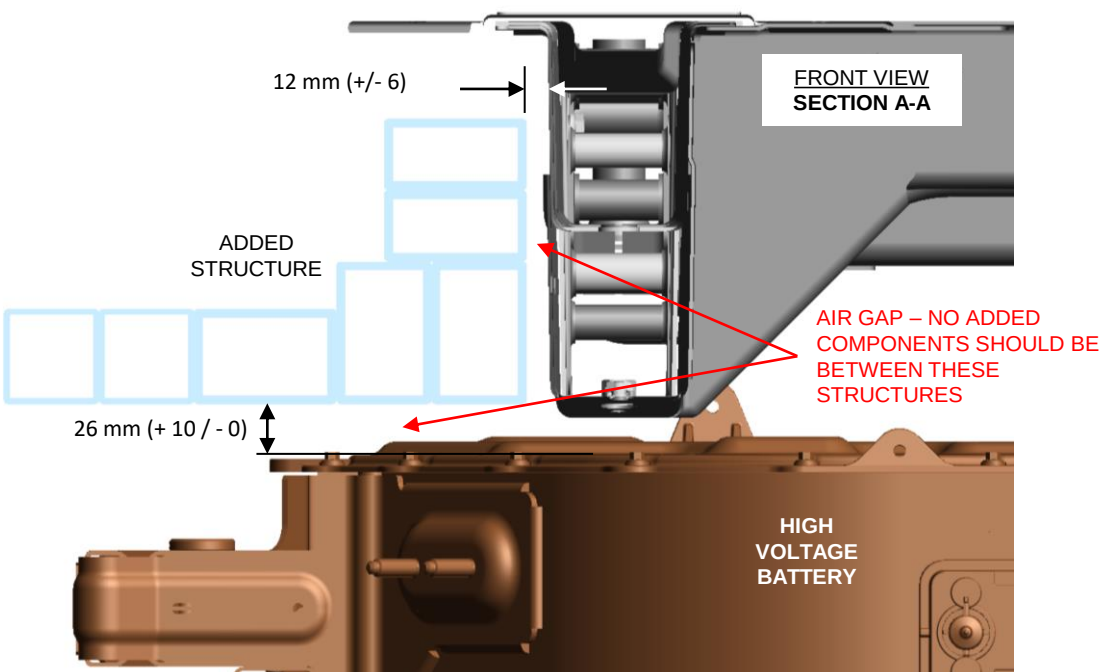
3. ADDITION OF "EQUIVALENT" REPLACEMENT STRUCTURE

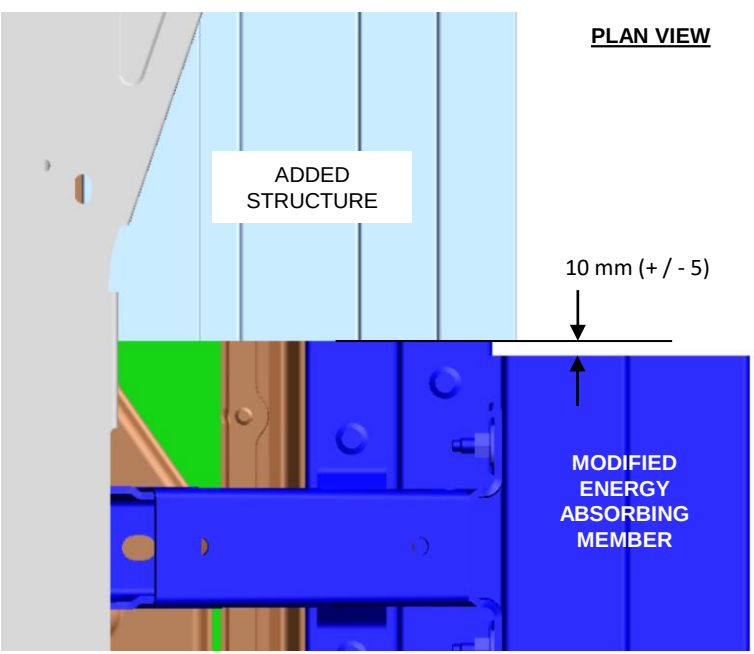


SECTION A-A – Cross Car at front of shorter portion of structure (X = 3337)

NOTE: the added structure described here has been evaluated to meet the standard FMVSS 305. Additional structure and/or attachments may be necessary to achieve other attribute targets (Durability, Noise, Vibration and Harshness etc.) for the completed vehicle.

a. LOCATION OF REPLACEMENT STRUCTURE


12 mm (+/- 6)
FRONT VIEW
SECTION A-A
ADDED STRUCTURE
AIR GAP – NO ADDED COMPONENTS SHOULD BE BETWEEN THESE STRUCTURES
26 mm (+ 10 / - 0)
HIGH VOLTAGE BATTERY

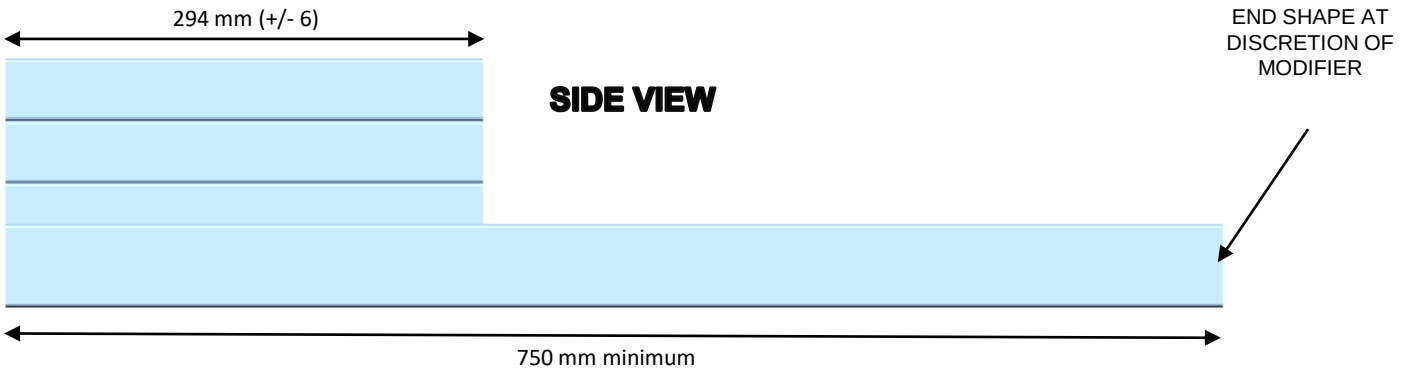


TRANSIT

DESIGN / RECOMMENDATION: BUS STEP INCORPORATION (CHASSIS CAB & CUTAWAY - 3P BATTERY ONLY)

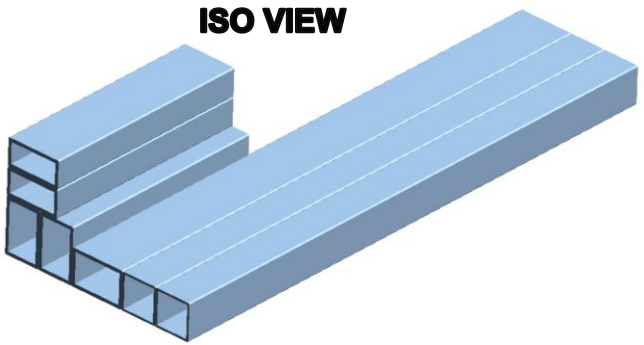
b. DIMENSIONS AND MATERIALS OF REPLACEMENT STRUCTURE

MATERIAL:
Extruded 6061-T6 Aluminum
per ASTM B221



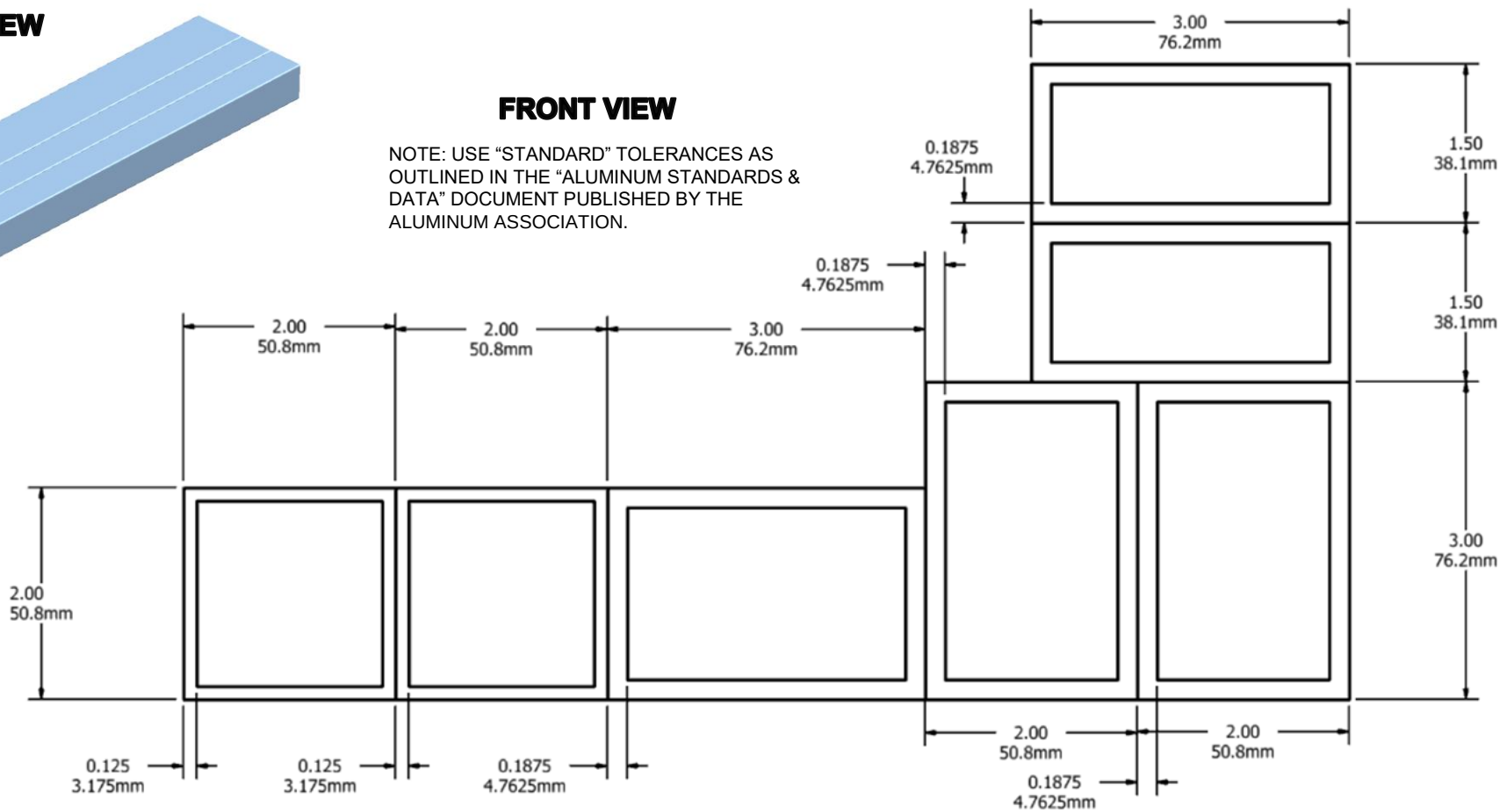
SIDE VIEW

ISO VIEW



FRONT VIEW

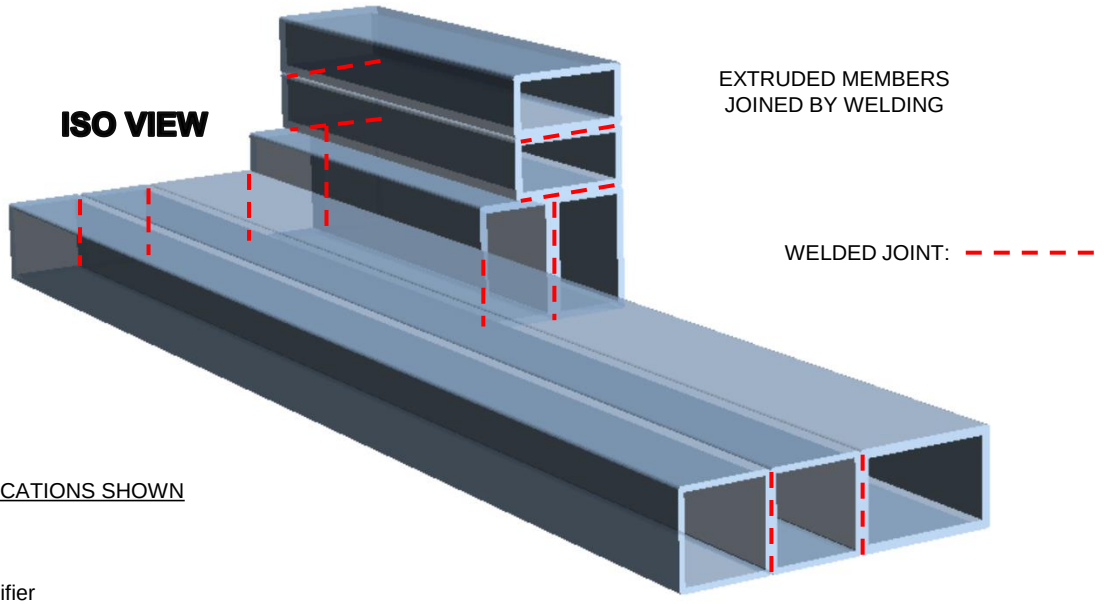
NOTE: USE “STANDARD” TOLERANCES AS OUTLINED IN THE “ALUMINUM STANDARDS & DATA” DOCUMENT PUBLISHED BY THE ALUMINUM ASSOCIATION.



TRANSIT

DESIGN / RECOMMENDATION: BUS STEP INCORPORATION (CHASSIS CAB & CUTAWAY - 3P BATTERY ONLY)

c. JOINING OF REPLACEMENT STRUCTURE

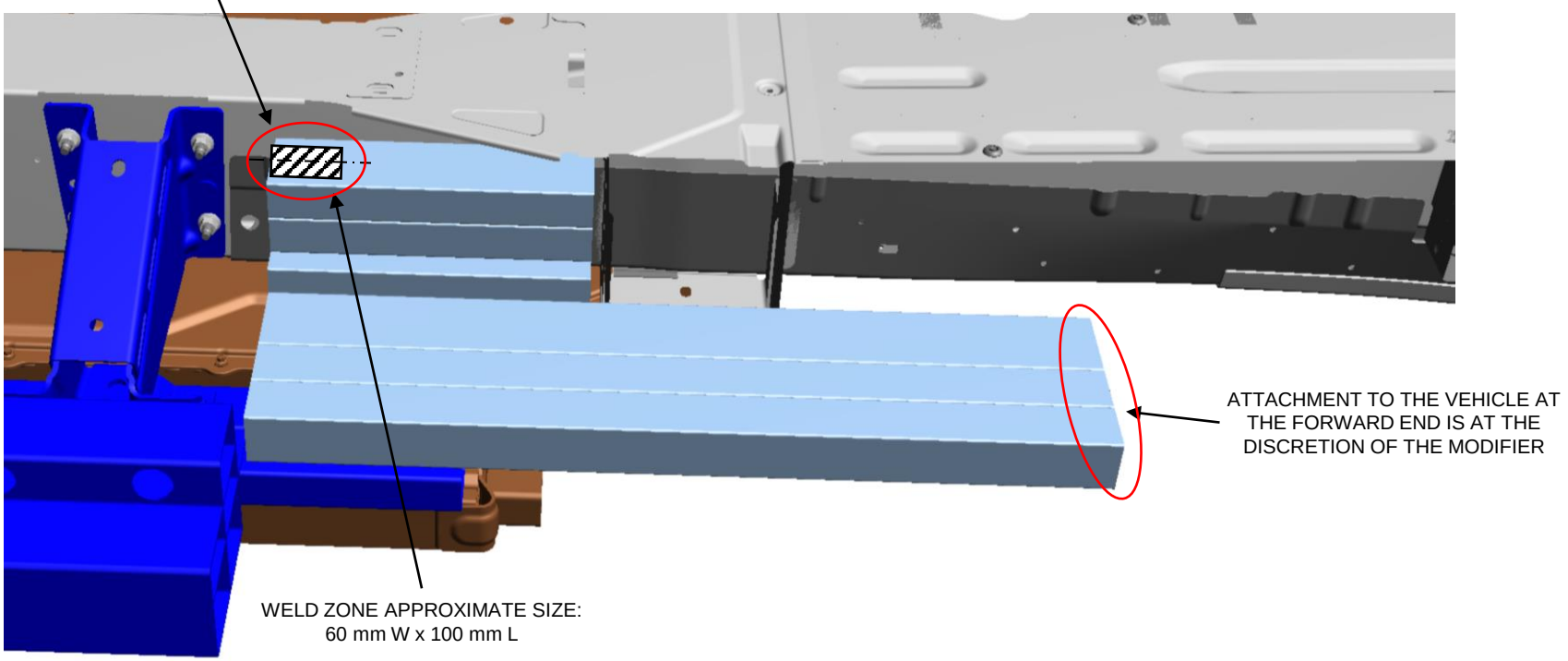


THE ADDED STRUCTURE SHOULD BE ATTACHED TO THE VEHICLE IN ONLY THE 2 LOCATIONS SHOWN

Attachment to the vehicle at the rear end must meet 2 criteria:

- Is welded to the added structure in the zone shown
- Is bolted to the vehicle frame rail

Otherwise, the geometry and materials of the rear attachment are at the discretion of the Modifier


ATTACHMENT TO THE VEHICLE AT
THE FORWARD END IS AT THE
DISCRETION OF THE MODIFIER
WELD ZONE APPROXIMATE SIZE:
60 mm W x 100 mm L

Body Builders Layout Book

TRANSIT

CLIMATE CONTROL: GREEN HOUSE GAS EVAPORATIVE EMISSION SPECIFICATIONS

Pursuant to California regulation 17 CCR §95663 , and EPA 40CFR 1037.115(e) the specific leakage for this vehicle (as built by Ford Motor Company) is shown in the table below (see “J2727 Leakage Value” column). If the vehicle air conditioning system is modified in any way, or air conditioning systems are added, the intermediate or final-stage manufacturer must calculate the final system leakage. If desired, the spreadsheet used by Ford to calculate the J2727 Leakage is available and can be edited to reflect the modified system.

Please contact Ford BBAS to request a copy of the vehicle line specific GHG Evaporative Emissions Worksheet: https://fordbbas.com

MY	VEHICLE LINE	FEATURES / MODELS	EVAPORATOR	POWERTRAIN	REFRIGERANT	CHARGE SIZE OF A/C SYSTEM (KG)	J2727 LEAKAGE VALUE (G/YR)	MAX ALLOWED LEAKAGE
2023	TRANSIT	ALL	SINGLE	3.5L TiVCT & 3.5l GTDI	R-134a	0.85	7.095	12.75
2023	TRANSIT	REGULAR WB	DUAL	3.5L TiVCT V6	R-134a	1.425	7.905	21.375
2023	TRANSIT	LONG WB.	DUAL	3.5L TiVCT V6	R-134a	1.425	7.997	21.375
2023	TRANSIT	LONG WB. EXTENDED LENGTH	DUAL	3.5L TiVCT V6	R-134a	1.425	8.041	21.375
2023	TRANSIT	REGULAR WB	DUAL	3.5L GTDI V6	R-134a	1.425	7.905	21.375
2023	TRANSIT	LONG WB.	DUAL	3.5L GTDI V6	R-134a	1.425	7.997	21.375
2023	TRANSIT	LONG WB. EXTENDED LENGTH	DUAL	3.5L GTDI V6	R-134a	1.425	8.041	21.375
2023	TRANSIT	PREP PACK	SINGLE	3.5L TiVCT & 3.5l GTDI	R-134a	0.85	7.221	12.75
2023	TRANSIT	BEV 3P	DUAL	ELECTRIC VEHICLE	R-134a	0.9	4.584	13.5
2023	TRANSIT	BEV 4P	DUAL	ELECTRIC VEHICLE	R-134a	0.9	4.604	13.5

TRANSIT

CLIMATE CONTROL: AUXILIARY A/C & HEATER AFTERMARKET ADDITION GUIDANCE

It is recommended that when installing an auxiliary heater and/or air conditioning system the Final Stage Manufacturer meet or exceed the occupant comfort heating and cooling performance of the current production vehicle.

The performance of the Ford defrost and defog system must not be diminished by the addition of an auxiliary heater and/or air conditioning system. Final Stage Manufacturers are reminded of their responsibility to maintain compliance to FMVSS 103 and CMVSS 103, Windshield Defrosting and Defogging Systems.

FORD MOTOR COMPANY OEM FRONT SYSTEM SPECIFICATIONS FOR E-TRANSIT:

- Thermostatic Expansion Valve (TXV) size: 2.0 Ton
- AC Compressor Displacement: 34 cc Fixed
- AC Condenser Heat Rejection: Heating Mode - 2.6 kW, Cooling Mode - 10.3 kW
- R134a Refrigerant Charge: 31.7 oz (900g)
- POE Refrigerant Oil: 4.94 oz (140g)
- Coolant Heater: 5.0 kW

AUXILIARY AC REQUIREMENTS:

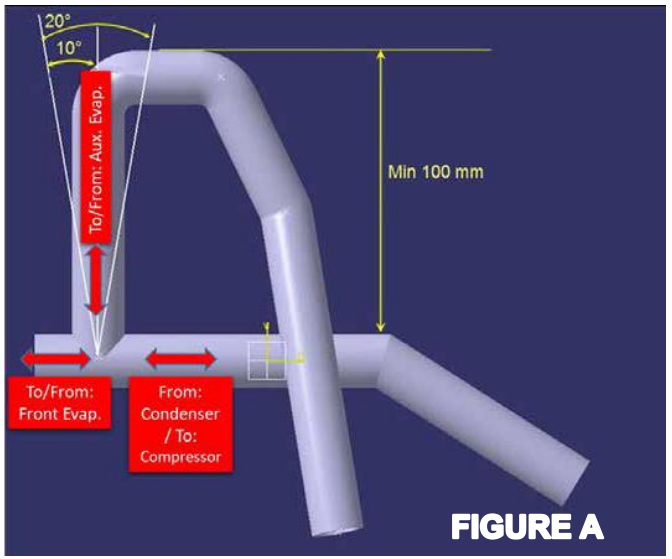
- No factory prep packages are available. Tie into the OEM system using custom lines that obtain refrigerant liquid between the receiver dryer and front TXV and return refrigerant to the suction line between the front TXV and the compressor.
- Do NOT use an auxiliary Cycling Clutch Orifice Tube (CCOT) system in combination with the OEM front TXV system.
- An auxiliary TXV with a refrigerant bleed is required. This will assist oil and refrigerant return to the AC Compressor under all conditions.
- It is the responsibility of the Final Stage Manufacturer when combining an auxiliary AC system with the OEM AC system to perform Refrigerant Charge Level Determination, Oil-in-Circulation and Evaporator Icing tests.
- Motorcraft R-1234yf Refrigerant POE oil (WSS-M2C31-B2 / YN-34) must be used as the refrigerant system lubricant. Addition of any other oil risks damage to the AC compressor and contaminates the refrigerant system.
- It is the responsibility of the Final Stage Manufacturer to maintain a 4% suspended oil ratio in the AC system for proper compressor lubrication.
- A label stating the revised total refrigerant charge, type of refrigerant (R134a), total oil charge and type of compressor lubricating oil (POE), must be affixed in a conspicuous place in the engine compartment.
- Compressor discharge gas temperature should not exceed 130°C skin temperature when measured under any conditions. Skin temperature should be measured on the AC discharge line immediately out of the compressor.
- Final Stage Manufacturers are reminded of their responsibility to maintain compliance to CARB and EPA requirements related to AC Greenhouse Gas Regulations.
- AC systems with Electric Compressors should use barrier or veneer type A/C hose, SAE J3062 Hose Type Cu or EU. Joint or connection types (serviceable fittings) should be Seal Washer, Dual Seal Washer, Seal Washer with O-ring, or Metal Seal Fitting (Metal Gasket) as shown in SAE J2727.
- At no time should the cooling fan shroud or cooling fans be modified.
- Do not modify any of the front-end seals to the cooling module. These prevent hot air recirculation from coming back into the AC Condenser.
- Do not splice into any compressor wire harness.

AUXILIARY HEATER REQUIREMENTS

- Tying into the OEM Heating and Defrost coolant system will result in the sharing of heated coolant produced by a single high voltage coolant heater across the production front HVAC heater core and the auxiliary HVAC heater core. This may result in lower than desired discharge air temperatures and undesired heater performance.
- Use only the coolant type specified in the vehicle owner's manual

AC AND HEATER LINE ROUTINGS

- Final Stage Manufacturer may want to consider adding manual bleed devices/ports in high points of the coolant system to assist with purging air out of the system during the coolant fill process.
- Routing clips or other aids should be used to keep components from rubbing or chaffing.
- Use only metallic "Y" and "T" type coolant fittings or OEM approved materials.
- Do not route lines/hoses in the wheelhouse area.
- Do not route lines/hoses near sharp edges or moving component parts. There must be shield protection from any potential abrasive sources.
- Do not route refrigerant or coolant lines below the ground clearance zone.
- When routing in stone kick-up area, lines should be protected by shielding.
- Minimize the use of concentric protective heater hose shields. Limit length of concentric hose shields to 305 mm [12 in] maximum.
- Consider encasing added suction lines in insulating foam from connector location under body to the secondary evaporator for improved performance.
- To prevent liquid accumulation in the rear of the vehicle, a "candy cane" style connection is recommended on the Final Stage Manufacturers' AC lines that tie into the OEM system. Recommended minimum height is 100 mm and no more than 10 degrees from vertical. See Figure A.



BATTERY HEATING AND COOLING

- The large traction battery on this vehicle is cooled by the chiller and otherwise surface convection. There is no low temperature radiator (LTR). The chiller is an evaporator connected to the AC system that produces cold coolant, instead of cold air, to cool the battery.
- The battery is heated with the same heater used for the cabin, although battery heating only occurs when the vehicle is connected to a charger.
- Vehicle performance effects due to battery thermal derate can occur, if the battery thermal system (heat, cool) is impacted, making the battery too hot or too cold for proper performance.

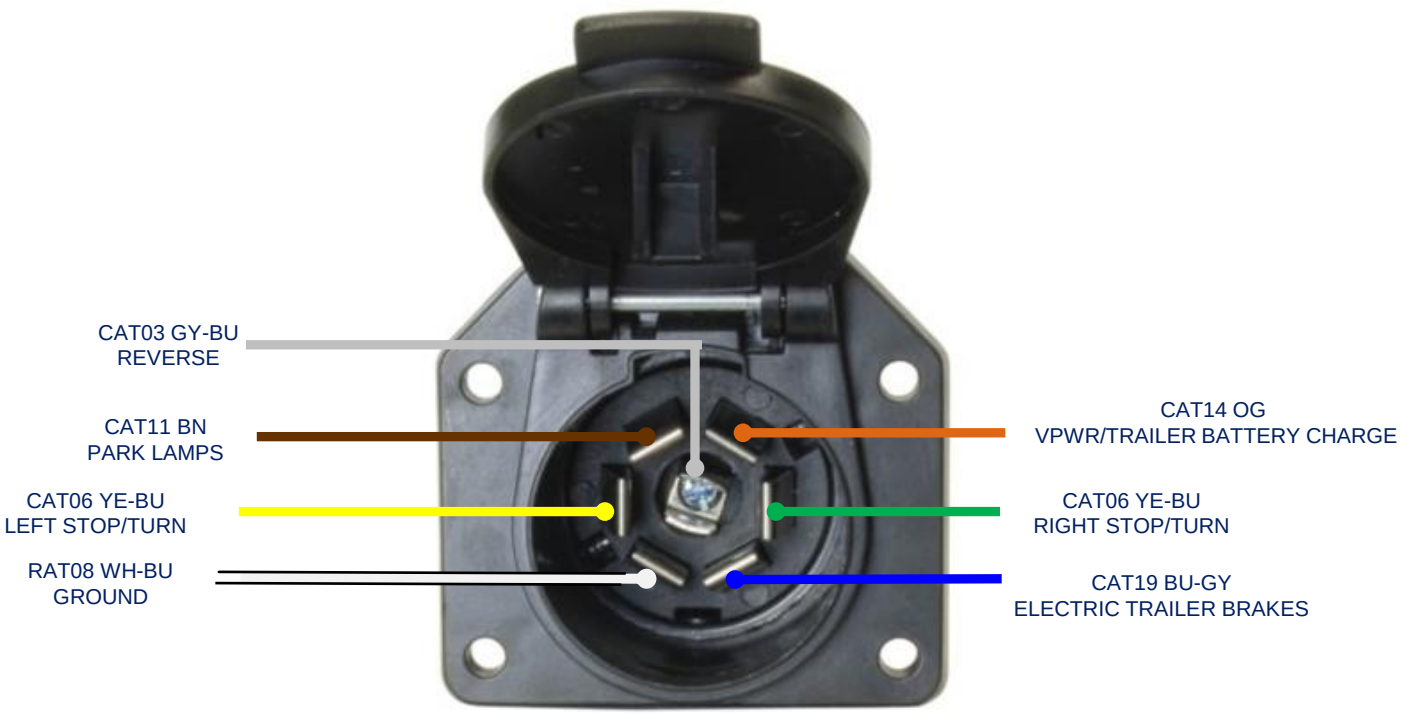
OTHER/MISCELLANEOUS

- Ideally, auxiliary Heater outlets should be located lower in vehicle, near the floor and auxiliary AC outlets should be located higher in the vehicle, near or in the headliner
- Keeping the vehicle plugged into a level 2 charger when not in use will enable battery conditioning (charging, heating, cooling) and cabin pre-heating or cooling. This will assist in maximizing available battery power during vehicle usage.
- E-Transit is available with an optional 2.4 kW Pro Power Onboard feature. Final Stage Manufacturers may want to consider usage of this feature for supplemental heater and cooling purposes
- Final Stage Manufactures should consider modifications such as solar glass and lightweight insulation to reduce the overall thermal load on the vehicle, thereby, maximizing the battery power available for vehicle usage.

TRANSIT

ELECTRICAL: TRAILER TOW WIRING HARNESS

CIRCUIT NUMBER	CIRCUIT DESCRIPTION	COLOR CODE
CAT06	LEFT STOP/TURN	YE-BU
RAT08	GROUND	WH-BU
CAT19	ELECTRIC TRAILER BRAKES	BU-GY
CAT06	LEFT STOP/TURN	YE-BU
CAT14	VPWR/TRAILER BATTERY CHARGE	OG
CAT11	PARK LAMPS	PARK LAMPS
CAT03	REVERSE	GY-BU



TRANSIT
SEIC / PTO: OPERATION

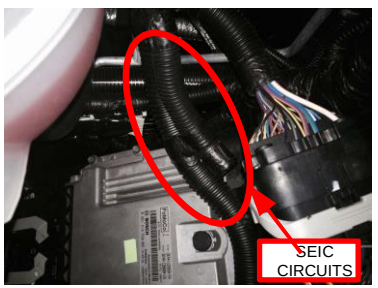
STATIONARY ELEVATED IDLE CONTROL (SEIC)
- A powertrain control module (PCM) strategy that provides elevated engine speed to drive auxiliary commercial equipment such as hydraulic pumps, generators, air compressors; or maintain vehicle battery charge under extreme electrical demands.
- SEIC is standard on Transit for use with FEAD mounted PTOs.

CUSTOMER ACCESS WIRES FOR SEIC AND VSO/CTO/PARK SIGNALS
- Located in the engine compartment, reference images
- The final stage manufacturer or upfitter is required to supply the customer interface equipment.

SEIC OPERATION:
- Intended to be commanded ONLY by applying battery voltage to certain customer access blunt cut wire circuits, and adding a target-speed resistor, and is only available when the vehicle road speed signal is zero.
- Includes a link circuit which changes from open-circuit to ground when enablers are met, that may be used to turn on an indicator lamp, while providing battery power to an aftermarket PTO clutch or solenoid.
- Ramp rates are fixed and cannot be altered by the customer
  - Minimum engine speed ~ 800 RPM
  - Maximum engine speed ~ 2400 RPM

Typical SEIC Engagement Sequence
- Initiating SEIC by applying battery voltage to SEIC-PTO wire immediately commands the PCM to first look for enabling conditions, such as vehicle gearshift selector in PARK, engine at base idle speed of about 650 RPM, etc. A complete list of enablers is provided in the “SEIC Enable/Disable Conditions” section of this bulletin. Once enablers are satisfied then the following takes place:
  1. Command is sent to increases engine speed to 900 RPM standby
  2. The low-side driver circuit changes from open-circuit to ground
  3. Engine speed increases to the target RPM determined by resistor (reference Resistor Chart)

Special Situations - Alternative Calibration
- All Ford vehicles have an “Alternative Calibration’ or ‘ALT-CAL’ installed in the PCM that conditions the powertrain during its early lifetime. It may increase the PARK-idle or Drive-idle speed of the engine, by as small as 50 RPM or by several hundred. It affects SEIC initiation by not letting it activate, because one of the SEIC enablers is having a steady idle speed, generally near 650 RPM. If ‘ALT-CAL’ sets the idle at 700 RPM then SEIC activation will be prevented. ‘ALT-CAL’ is normally removed after 50 key-on starts, or by driving over 5 continuous miles; it is also sometimes erased by disconnecting the battery.



TRANSIT ENGINE COMPARTMENT
SEIC circuit location, found under hood, wrapped in convolute, taped to harness behind coolant reservoir.

Special Situations - Battery Charge Protect Battery charge protect mode is available on 3.5L Gas and 3.5L GTDI gas engine models. On these powertrains, Battery Charge protect mode is determined through resistor selection (Reference Resistor Chart). Note: PTO RPM REQ must have a voltage input between .16 and .20 for BCP to function. When it is switched on the engine speed goes immediately to 600. From this state, the PCM uses battery voltage as well as ambient air temp., engine oil temperature information to raise engine speed higher to maintain a certain battery charge. Maximum engine speed in BCP mode is 1200 rpm. Loss of an operating condition after BCP is engaged will require the BCP switch to be cycled before BCP will re-engage.

SEIC ENABLE/DISABLE CONDITIONS

VEHICLE CONDITIONS TO ENABLE SEIC (ALL ARE REQUIRED)	VEHICLE CONDITIONS THAT DISABLE SEIC (ANY ONE REQUIRED)	GAS ENGINE
PARKING BRAKE APPLIED	PARKING BRAKE DISENGAGED	YES
FOOT OFF OF SERVICE BRAKE	DEPRESSING SERVCE BRAKE	YES[2]
VEHICLE IN PARK (AUTOMATIC)	VEHICLE TAKEN OUT OF PARK	YES
FOOT PFF OF ACCELERATOR PEDAL		YES
VEHICLE SPEED IS 0 MPH (STATIONARY)		YES
ENGINE SPEED AT A STABLE BASE IDLE SPEED		YES[1]
	TRANMISSION OIL TEMPAERATURE (TOT) LIMIT EXCEEDS 240° F	YES[2]
ENGINE COOLANT TEMPERATURE (ECT) 40° F MINIMUM	ENGINE COOLANT TEMPAERATURE LIMIT (ECT)	YES[2]
	CATALYST TEMPERATURE LIMIT	YES[2]

NOTE 1: It a SEIC disabling condition occurs, the engine must be allowed to reach stable base idle before the system can be re-initiated. This could take up to 15 seconds. If an attempt is made to reinitiate SEIC before the engine has reached a stable base idle SEIC will not engage. The operator will have to turn SEIC off. And then back on once the vehicle has reached a stable base idle.

NOTE 2: A "change-of-state” at both the "PTO_REQUEST (PTO) and circuits Is required to re-invoke SEIC. When a disabler is seen by the PCM, the circuit changes from "ground-source "to "open-circuit". After approximately 3 seconds SEIC drops out, returning the engine speed to base idle. To re-initiate SEIC the operator must turn off voltage to both the “PTO_REQUEST(PTO)" and circuits and turn it back on again

SEIC RESISTOR CHART

3.5L iVCT & 3.5L TiVCT		
ENGINE TARGET SPEED (RPM)	RESISTOR (Ω) (5%, 1/4 Watt)	VOLATGE (VOLTS)
700	34467	0.60
800	23434	0.84
900	17251	1.07
1000	13295	1.31
1100	10548	1.54
1200	8528	1.78
1300	6981	2.01
1400	5758	2.25
1500	5240	2.48
1600	3947	2.66
1700	3258	2.95
1800	2671	3.19
1900	2164	3.42
2000	1723	3.66
2100	1335	4.13
2200	991	4.13
2300	684	4.36
2400	409	4.60
2500	-	-
BCP		
700 - 1200*	100K Ω	

* RPM VARIES AS A FUNCTION OF BATTERY STATE OF CHARGE, REFERENCE BCP DESCRPTION

TRANSIT

SEIC / PTO: OPERATION

SEIC GENERAL SYSTEM BEHAVIOR

If an SEIC enabling condition is not met upon SEIC initialization:

- SEIC will not initiate. SEIC will require a "change-of-state" (voltage to both the “PTO_REQUEST” and "PTO_RELAY Output" circuits removed completely.) The enabling conditions must be met, and then SEIC and PTO operation may then be reinitiated.

If an SEIC disabler occurs:

- The "PTO_RELAY Output" circuit changes from "ground-source" to “open-circuit". After approximately 3 seconds SEIC drops out, returning the engine speed to base idle. SEIC will require a "change-of-state” (voltage to both the “PTO_REQUEST 1 (PTO)”.

The enabling conditions must be met, and then SEIC and PTO operation may then be reinitiated.

SEIC/PTO strategy function in the PCM is not affected by the loss of vehicle battery electrical power. SEIC Ramp Rate (fixed, not programmable):

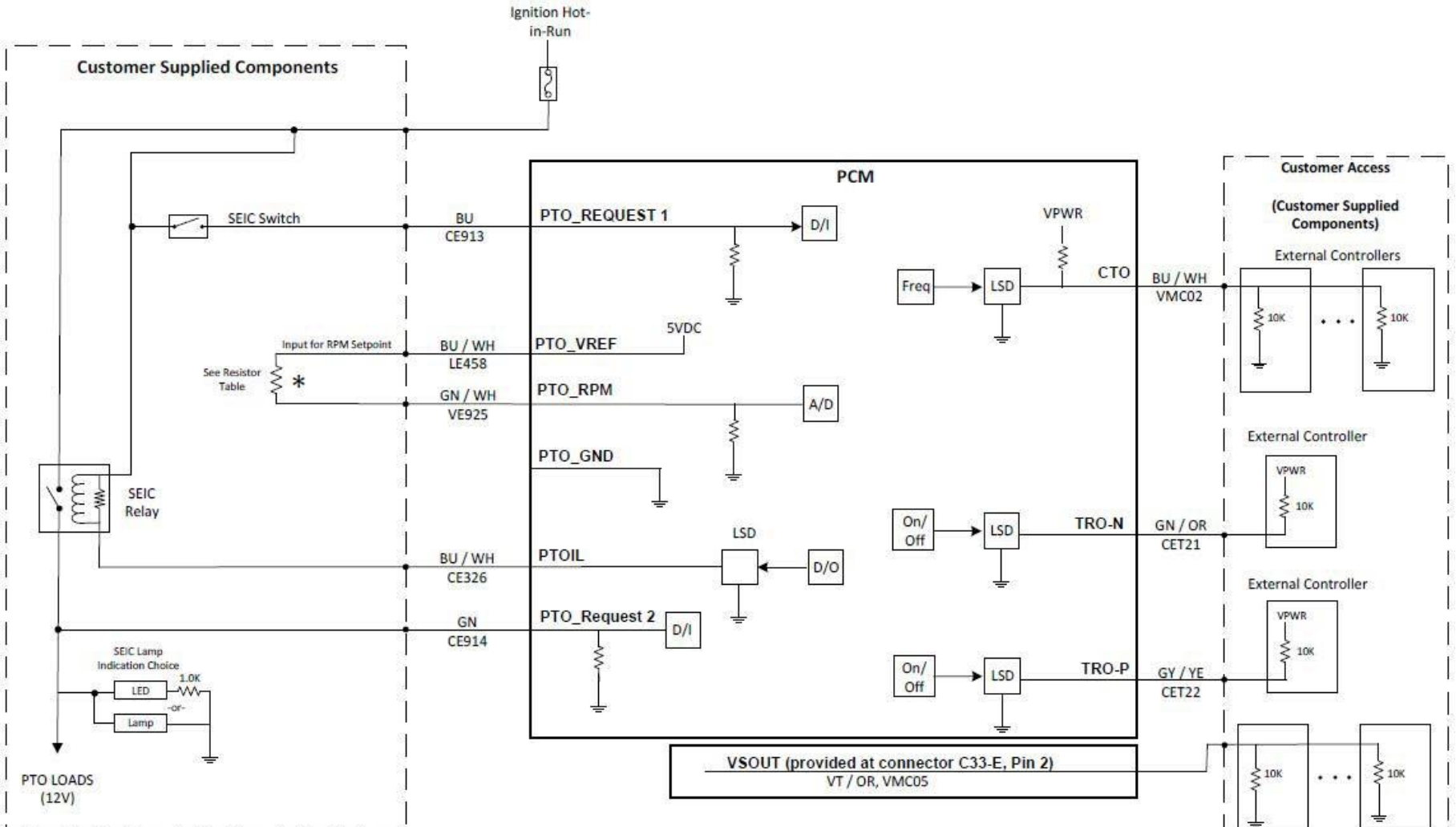
- 200 rpm/second.

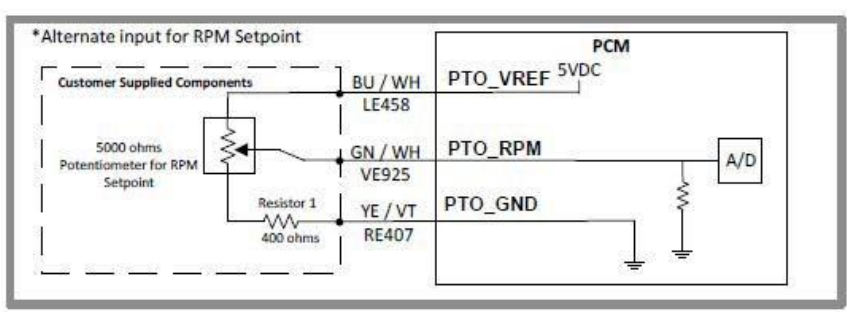
Correlation between engine speed and resistor values:

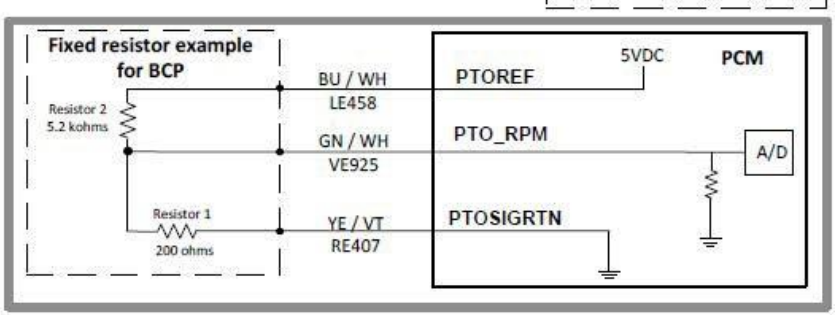
- The external voltage source that the aftermarket PTO system designer uses to command SEIC through the "PTO" or "PTO-REQUEST" circuits must be the same as that used by the PCM internally for predictable SEIC function. Reasoning is that a fully-charged vehicle battery fluctuates with ambient temperature.
- If there is a high electrical demand on the chassis battery, such as from aftermarket inverters or generators, etc., the actual elevated idle engine speed may vary with that demand for any given resistance in the SEIC circuit.
- Normal base engine calibration allows approximately +/-50 rpm fluctuation. If any factory vehicle accessories are used during SEIC, e.g. a/c, defroster, etc., then that fluctuation may increase to approximately +/-100 rpm or more.
- The sudden loss of aftermarket PTO hydraulic pressure during SEIC/PTO operation, like a ruptured hose, may send SEIC engine speed to near 3000 rpm. It is recommended that a hydraulic pressure switch linked to SEIC/PTO be added to disable SEIC/PTO when a hose ruptures.
- Because of a service brake circuit characteristic at engine-start, invoking SEIC may cause the diagnostic error code FFG_BOO to get flagged (recorded in the PCM). To avoid this, simply tap the service brake pedal sometime after engine-start and prior to invoking SEIC. Once the code is set, SEIC may not be available until it is erased.
- Gas engines require a "change-of-state" at the PTO-REQUEST 1 (PTO) Output circuit whenever a disabler turns off SEIC (remove battery voltage signal and re-apply).
- For aftermarket remote engine start-stop: a change-of-state is required to get SEIC to function again.

TRANSIT

SEIC / PTO: SCHEMATICS 3.5L & 3.5L GTDI ENGINES

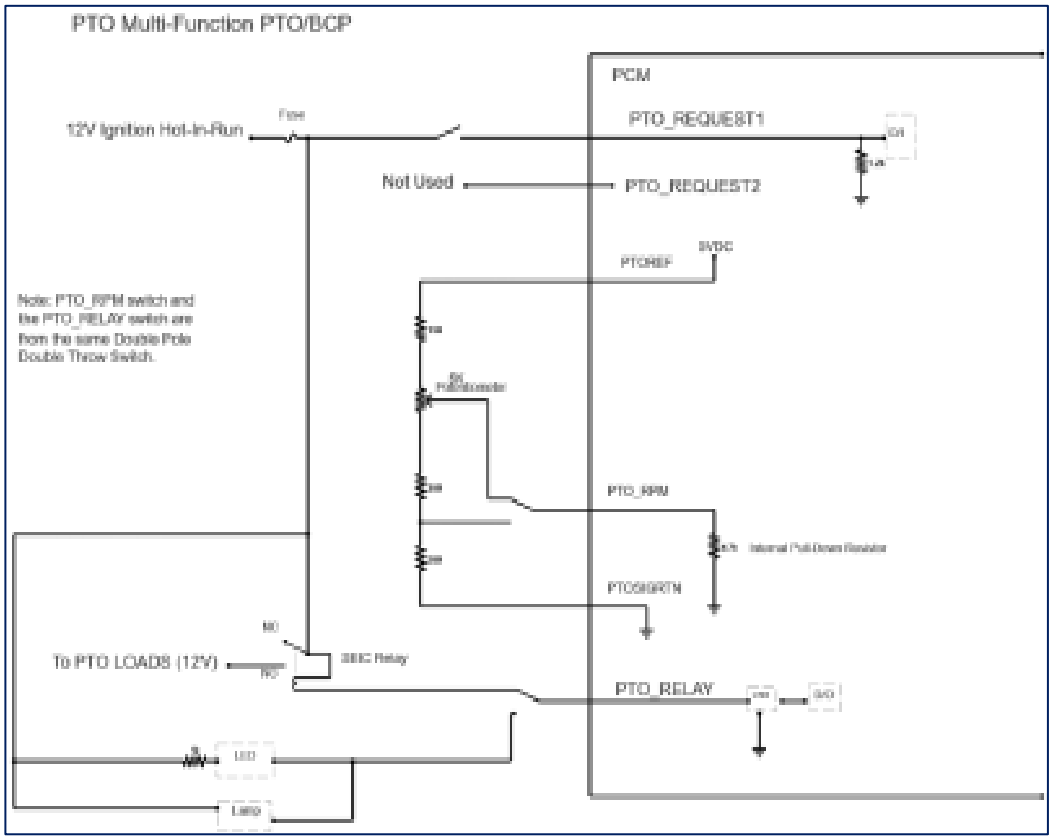


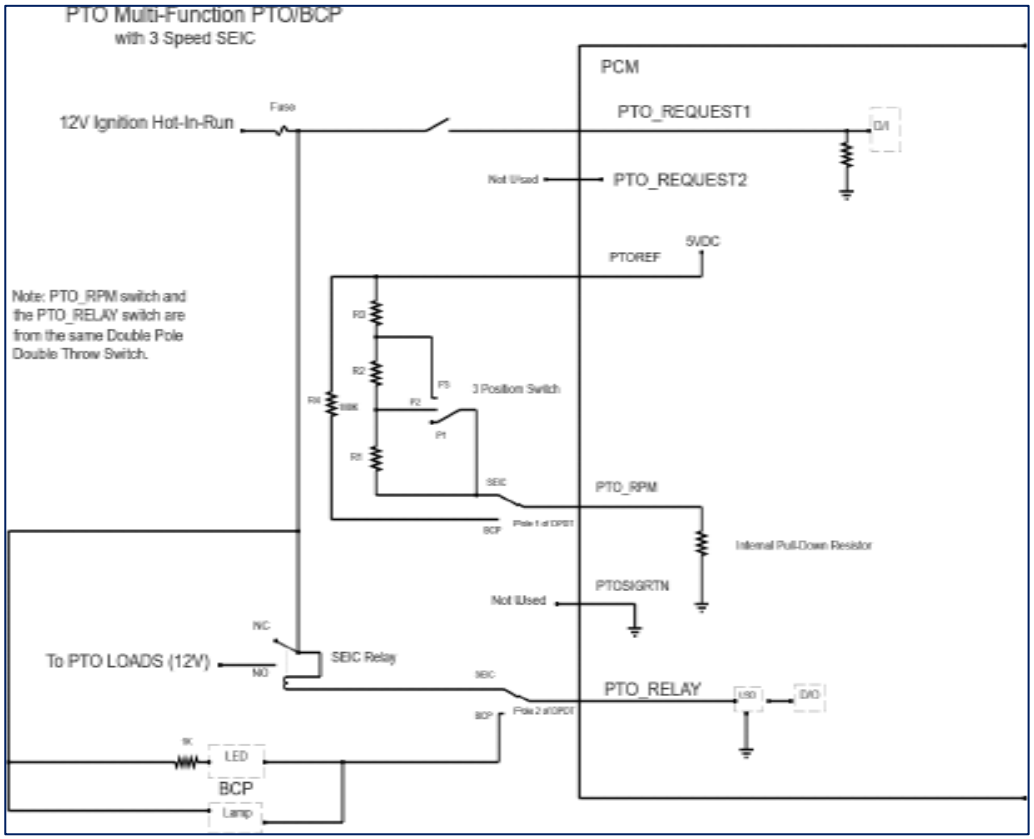




TRANSIT

SEIC / PTO: CIRCUIT DESCRIPTIONS





CUSTOMER ACCESS SIGNAL CIRCUIT DESCRIPTIONS

Refer to the Body Equipment Mounting Manual for more information.

CIRCUIT INTENT	WIRE TAG	DESCRIPTION
OUTPUT PARK-ONLY	TRO-P	3.5L - PCM PIN C1551B-40 CIRCUIT NO. CET22 WIRE COLOR: GRAY / BROWN
OUTPUT NEUTRAL-ONLY	TRO-N	3.5L - PCM PIN C1551B-81 CIRCUIT NO. CET21 WIRE COLOR: GREEN / ORANGE
OUTPUT VEHICLE SPEED	VSOUT	CIRCUIT NO. VMC05 CONNECTOR: C33-E PIN:4 SEE BEMM FOR SIGNAL SPECIFICATION.
OUTPUT ENGINE SPEED	CTO	3.5L - PCM Pin C1551B-40 Circuit No. VMC02 Wire Color: Blue / White
PASS-THRU		CIRCUIT NO. CAC17, FOUND AT: - VEHICLE INTERFACE CONNECTOR C11-H (4-PIN CONNECTOR), PIN #2, AT FIREWALL ON DRIVER SIDE OF THE ENGINE COMPARTMENT - VEHICLE INTERFACE CONNECTOR C12-A (6-PIN CONNECTOR), PIN #1, BEHIND LEFT SIDE OF CENTER STACK. - REQUIRES MODIFIED VEHICLE WIRING OPTION (53K)
PASS-THRU		CIRCUIT NO. CAC18, FOUND AT: - VEHICLE INTERFACE CONNECTOR C11-H (4-PIN CONNECTOR), PIN #3, AT FIREWALL ON DRIVER SIDE OF THE ENGINE COMPARTMENT - VEHICLE INTERFACE CONNECTOR C12-A (6-PIN CONNECTOR), PIN #2, BEHIND LEFT SIDE OF CENTER STACK. - REQUIRES MODIFIED VEHICLE WIRING OPTION (53K)

TRANSIT
SEIC / PTO: CIRCUIT DESCRIPTIONS

SEIC CIRCUIT DESCRIPTIONS - All circuits lead back to pins on the PCM		
CIRCUIT INTENT	**WIRE TAG**	**DESCRIPTION**
INPUT (VPWR)	PTO_REQUEST1	3.5L - PCM PIN **C1551B-87 CIRCUIT NO. CE913** / WIRE COLOR: BLUE 3.5L - PCM PIN **C175B-84 CIRCUIT NO. CE913** WIRE COLOR: BLUE • Applying vehicle battery voltage to this wire begins SEIC process. • Signals PCM to enter SEIC strategy. • Verifies safety enablers. • Elevates engine speed to target found at PTO-RPM circuit. • Invokes the PTOIL circuit when safety enablers are met. • Looks for the target engine speed requested at the PTO_RPM circuit using a resistor or POT.
INPUT (VPWR)	PTO_REQUEST2	3.5L - PCM PIN **C1551B-91 CIRCUIT NO. VE935** WIRE COLOR: GREEN / 3.7L - PCM PIN **C175B-88 CIRCUIT NO. VE935** WIRE COLOR: GREEN - RPM Increase Command Monitor
OUTPUT		3.5L - PCM PIN **C1551B-80 CIRCUIT NO. CE326** WIRE COLOR: GREEN/VIOLET / 3.5L - PCM PIN **C175B-96 CIRCUIT NO. CE326** WIRE COLOR: GREEN/VIOLET • A low-side driver, changing from "open-circuit" to "ground" indicating that the engine is ready for the PTO operation to begin and that a PTO load may be applied. • Intended for powering a PTO indicator lamp or turn on a relay coil (not to exceed 1 amp). • LED lights require adding a resistor in series.
INPUT (resistor)	PTO_RPM	3.5L - PCM PIN **C1551B-33 CIRCUIT NO. CE925** WIRE COLOR: GREEN / WHITE / 3.5L PCM PIN **C175B-85 CIRCUIT NO. CE925** WIRE COLOR: GREEN / WHITE • Add a resistor or a potentiometer to obtain fixed or variable engine target speed. • Combine in circuit with PTO_VREF (+5V). • Speed range available: 910 rpm to 2400 rpm
OUTPUT	PTO_VREF	3.5L GTDI - PCM PIN **C1551B-11 CIRCUIT NO. LE458** WIRE COLOR: BLUE / WHITE / 3.5L GAS - PCM PIN **C175B-52 CIRCUIT NO. LE458** WIRE COLOR: BLUE / WHITE • A 5-volt reference, buffered against shorts to ground or power, used to complete the resistor circuit for engine speed selection.
INPUT	PTO_GND	3.5L - PCM PIN **C1551B-18 CIRCUIT NO. RE407** WIRE COLOR: YELLOW / VIOLET / 3.5L - PCM PIN **C175B-51 CIRCUIT NO. RE407** WIRE COLOR: YELLOW / VIOLET • A ground reference, buffered, used to complete the resistor circuit for engine speed selection when a potentiometer is used.

BATTERY VOLTAGE SOURCES (VPWR) - Refer to the Body Equipment Mounting Manual for more information.		
CIRCUIT INTENT	**WIRE TAG**	**DESCRIPTION**
HOT-AT-ALL-TIMES		**CIRCUIT NO. SB153** / Fused 40-amp circuit (F53) / Requires modified vehicle wiring option (53K). Located: • Vehicle Interface Connector C11-H (4-PIN CONNECTOR), PIN #4, at firewall on driver side of the engine compartment • Vehicle Interface Connector C12-A (6-PIN CONNECTOR), PIN #3, behind left side of center stack. • Vehicle Interface Connector C33-C (6-PIN CONNECTOR), PIN #3 , behind Passenger side airbag, above glove box. **CIRCUIT NO. SB118** CONNECTOR: C33-C PIN:6 / Fused 40-amp circuit (F18) Located: • Vehicle Interface Connector C33-C (6-PIN CONNECTOR), PIN #6, behind Passenger Side Airbag, above glove box. • Requires modified vehicle wiring option (53K) Customer Connection Point / Fused 60-amp VBATT feed. Located: Right side rear of driver seat pedestal.
IGNITION HOT-IN-RUN		**CIRCUIT NO. CB121 CONNECTOR: C33-E PIN:6** / Fused 10-amp circuit. Located: Vehicle Interface Connector C33-E (6-PIN CONNECTOR) on right side of driver seat pedestal beneath driver seat.
		CIRCUIT NO. CAC14 / Fused 40-amp circuit (F52) / Requires modified vehicle wiring option (53K) Located: • Vehicle Interface Connector C11-H (4-PIN CONNECTOR), PIN #1, at firewall on driver side of the engine compartment • Vehicle Interface Connector C12-A (6-PIN CONNECTOR), PIN #4, behind left side of center stack • Vehicle Interface Connector C33-C (6-PIN CONNECTOR), PIN #5, behind Passenger Side Airbag, above glove box.
UPFITTER SWITCH OUTPUT: IGN-HOT/ACC LOCATED: VEHICLE INTERFACE CONNECTOR C33-H (4-PIN CONNECTOR) RIGHT SIDE OF DRIVER • REQUIRES UPFITTER SWITCH OPTION 67C	AUX-1	[20-amp] **CIRCUIT NO. CAC05 CONNECTOR: C33-H PIN:1**
	AUX-2	[20-amp] **CIRCUIT NO. CAC06 CONNECTOR: C33-H PIN:2**
	AUX-3	[20-amp] **CIRCUIT NO. CAC07 CONNECTOR: C33-H PIN:3**
	AUX-4	[20-amp] **CIRCUIT NO. CAC08 CONNECTOR: C33-H PIN:4**

TRANSIT

ELECTRICAL: REAR VIEW CAMERA (CHASSIS CAB & CUTAWAY)

FORD CAMERA KIT COMPLIANCE CAPABILITY:

- Ford has tested the rear-view camera kit and all the camera/display pairings offered are capable of meeting the backup camera portion of FMVSS 111 when mounted in the zone defined below.

COMPLIANCE TO FMVSS 111 WILL BE THE RESPONSIBILITY OF THE UPFITTER WHO ALTERS THE VEHICLE

- This information is provided for directional purposes only, based on testing done by Ford. If equipped with a rearview mirror display, 4 inch or 8 inch display the camera included in kit is capable of complying with FMVSS 111 rearview camera requirements when mounted in the areas defined in Figure 3.

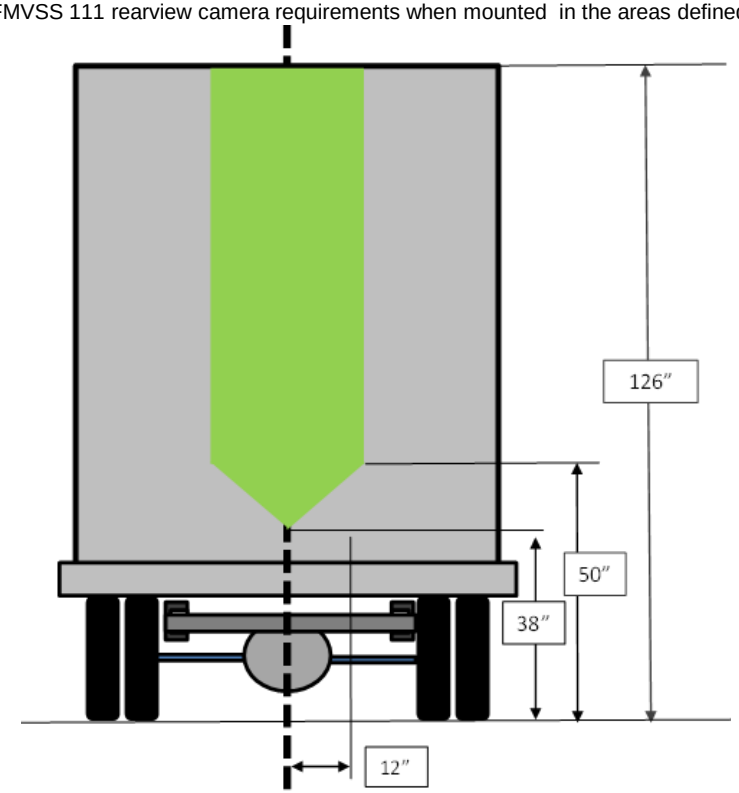
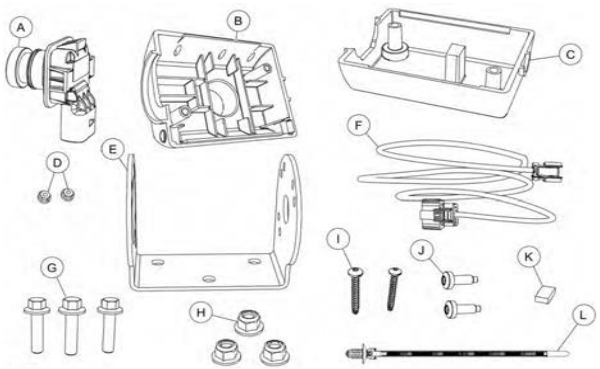


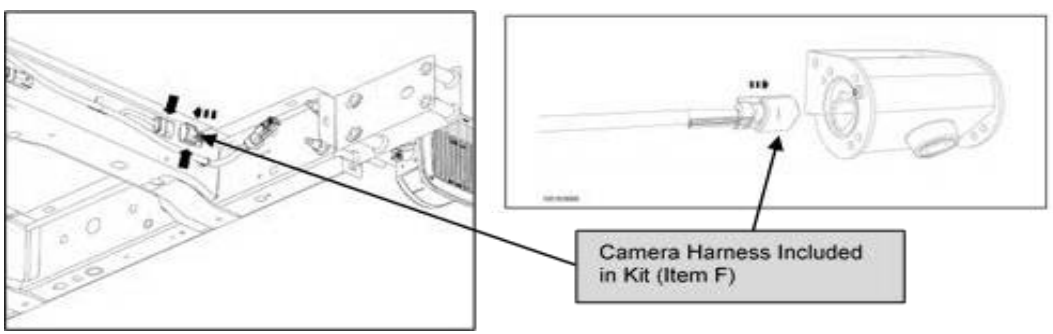
FIGURE 3: Coverage with Rearview Mirror display , 4-inch display and 8-inch display- Please see the Order Guide for all available options

REAR VIEW CAMERA KIT:

- A rear-view camera and prep kit for incomplete vehicles is available as an orderable option (Order Code 61A - see Figures 1 and 2) with all Cutaway and Chassis Cab incomplete vehicles. The rearview mirror display is the standard display with Option Code 58T. The All-other audio options will display in the multifunction screen.
- **If the backup camera kit (61A) is not ordered with the vehicle, it cannot be retrofit later.**



ITEM	QTY	DESCRIPTION
A	1	REAR VIEW CAMERA
B	1	FRONT CAMERA CASE HALF
C	1	REAR CAMERA CASE HALF
D	2	SCREW RETAINING NUTS
E	1	MOUNTING BRACKET
F	1	WIRE HARNESS
G	3	BOLTS
H	3	NUTS
I	2	SCREWS (LONGER)
J	2	SCREWS (SHORTER)
K	1	FOAM PAD
L	1	PUSH PIN TIE STRAP



NOTE:
Final Stage Manufacturers who complete vehicles 10,000 lbs. GVWR or less produced by Ford as incomplete (e.g., pickup box delete, chassis-cabs, cutaways) on or after 5/1/2018 must meet these new FMVSS 111 requirements. Ford will issue additional bulletins containing information to assist Final Stage Manufacturers achieve compliance with the Ford Reverse Camera Kit on incompletes.

The NTEA has provided detailed information and educational resources to help members better understand the new FMVSS 111/Reverse Camera Conformity (including a manual and test kit). Ref. https://www.ntea.com/fmvss111rearvisibility

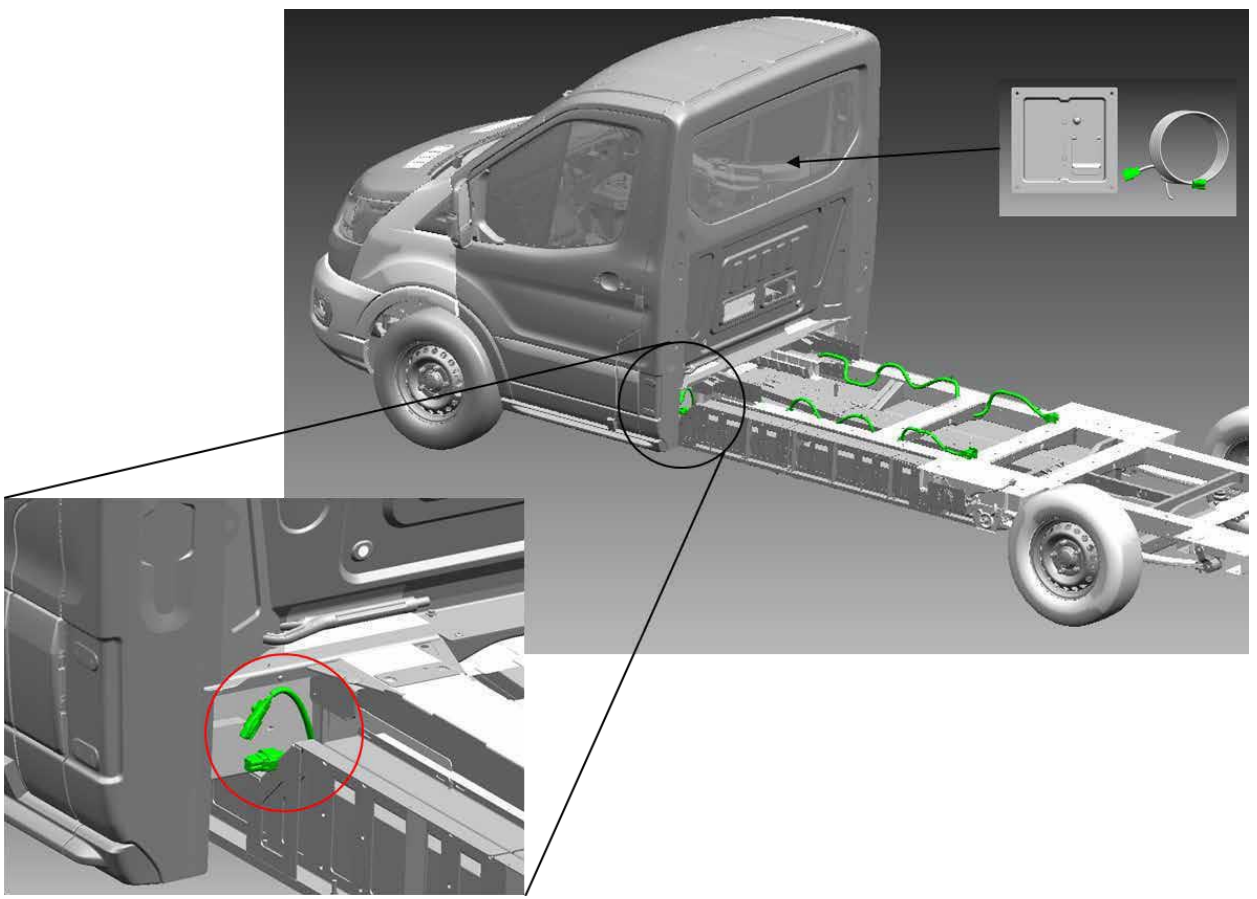
TRANSIT

ELECTRICAL: PRO POWER ONBOARD FEATURE (CHASSIS CAB & CUTAWAY)

PRO POWER ONBOARD

- A cab outlet is installed in the Passenger seat pedestal .
  - An auxiliary outlet is provided in dunnage to be installed in the Second Unit Body .
  - The vehicle's DCACA and APIM modules will need to be reconfigured with a Ford Diagnostic and Repair System (FDRS) tool to "activate" the auxiliary outlet once installed .
  - The aux outlet is water resistant but should be installed such that it is protected from direct spray or flow of water .
  - The aux outlet should be installed on a substantially vertical surface .
  - The aux outlet should not be installed near any significant source of heat.
  - The aux outlet has a ~550 mm wiring pigtail. The included grommet and retaining clip may be carefully removed from the wiring if desired .
  - Attach the aux outlet to the SUB using all four holes provided (recommend M6 or #12 Pan head screw with 12 mm (0.47 in) max head diameter and 4.8 Nm (3.5 ft-lb) max installation torque).
  - Do not cover warning labels provided on the outlet.

- A 6m (18 ft) extension wiring harness is also provided in dunnage to allow flexibility in placement of the auxiliary outlet. The aux outlet pigtail can also connect directly to the chassis wiring if preferred.
  - The wiring connectors are sealed and do not need special protection from the elements.
  - Best practices for wire routing and retention should be followed, see the Ford General Body Builder Layout Book for more information.
  - Chassis wiring connectors for the auxiliary outlet are located near the LH frame rail at back of cab. These connectors have sealed caps which should remain in place until the aux outlet is plugged in (directly or via extension harness) to prevent contamination and potential shock hazard. The vehicle should be in the "key off" state when removing the sealed caps from the chassis wiring and connecting the extension harness and aux outlet pigtail
  - Note: In the case where the auxiliary outlet is not planned to be installed (either the aux outlet cannot be packaged in the SUB or is not desired by the customer), the Pro Power Onboard feature will function normally as delivered from the factory with the cab outlet only.

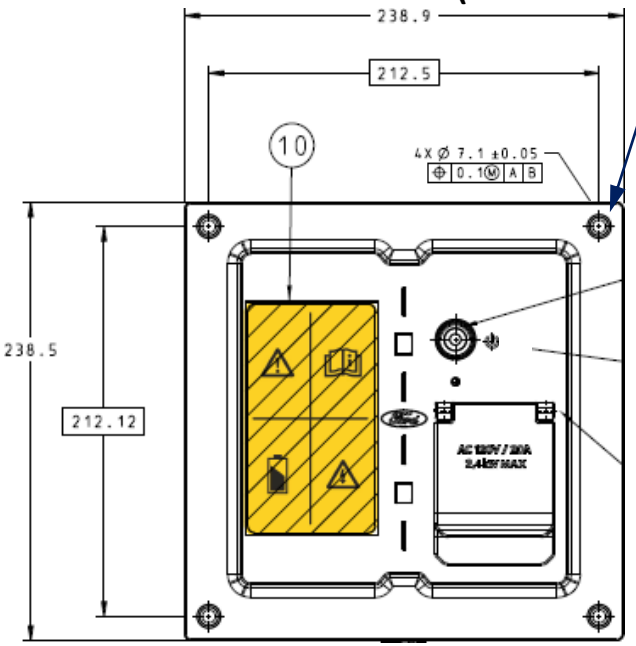


TRANSIT

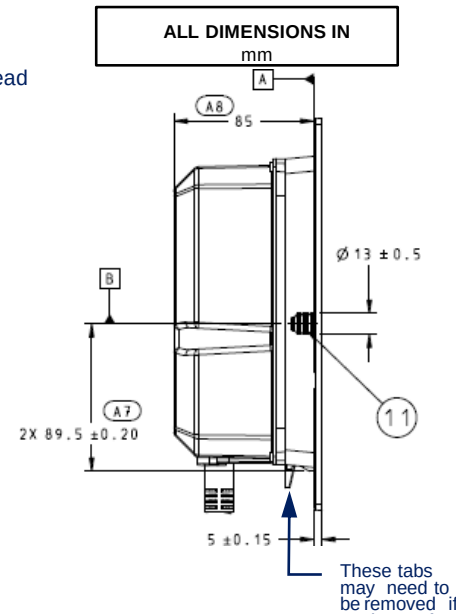
ELECTRICAL: PRO POWER ONBOARD FEATURE (CHASSIS CAB & CUTAWAY)

Wiring Length from tip of Strain Relief (+/- 10mm):

to Grommet - 290mm
to Clip – 430mm
to Signal connector – 550mm
To Power connector – 580mm



FRONT VIEW AUX OUTLET



SIDE VIEW AUX OUTLET

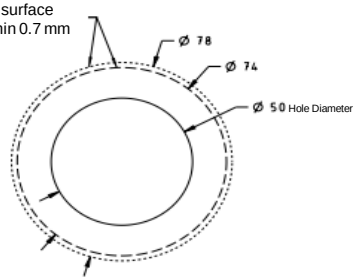
WIRING CLIP MATING SURFACE

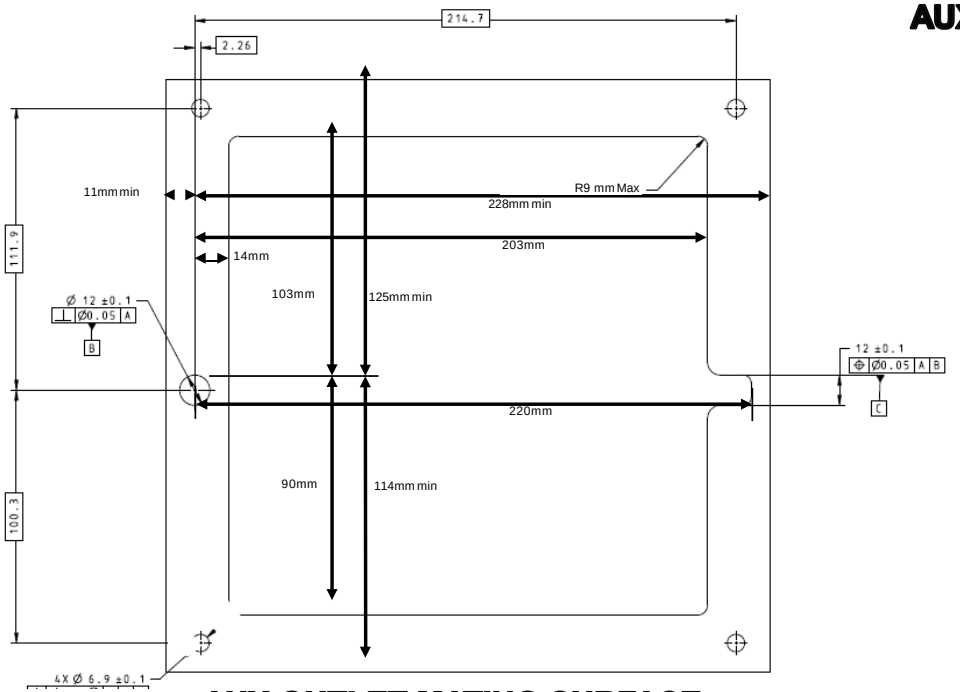
SHEET METAL THICKNESS RANGE: 0.60mm - 6.75mm
APPLICABLE OVAL HOLE SIZES:
A. 6.2 X 12.2mm
B. 6.5 X 12.5mm
C. 6.5 X 13.0mm
D. 7.0 X 12.0mm

WIRING GROMMET MATING SURFACE

Mating surface thickness 0.5 – 3.0 r

This area free from surface defects and flat within 0.7 mm





AUX OUTLET MATING SURFACE

TRANSIT
CHANGE CONTROL

REVISION:

- REMOVED 20230617
  - C1 weight chart inputs
- ADDED SECTION: 20230530
  - D/R: BUS Step Incorporation (Chassis Cab & Cutaway - 3P Battery Only)

- REMASTERED 20230518

- PUBLISHED 20230303